

aiwa



NSX-AV520

COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM: 2ZM-3MK2 PR4NM
- BASIC CD MECHANISM: 4ZG-1 Z3DSHNM

- TYPE : EZ

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-AV520	CX-NAV520	SX-NA504 SX-C605 SX-R275	RC - 7AS09

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-983-249-3OT.

ELECTRICAL MAIN PARTS LIST - 1

NOTE: The characters in the suffix column indicate the part usage.

AEZM	REF.NO	PARTS NO.	XX KANRI NO.	DESCRIPTION	A SUFFIX
		87-NB6-212-010		GUIDE, LED L IND	A.....
		87-NBG-202-010		GUIDE, FUN	A.....
		87-NF5-203-010		GUIDE, FL	A.....
		88-NF7-201-010		GUIDE, OPE	A.....
		88-NF7-202-010		GUIDE, PRO	A.....
C	105	87-010-178-080		CHIP CAP 1000P	A.....
C	102	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	103	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	108	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	107	87-010-197-080		CAP, CHIP 0.01 DM	A.....
C	104	87-010-494-040		CAP, E 1-50 GAS	A.....
C	101	87-010-550-040		CAP, E 100-6.3 GAS	A.....
C	109	87-018-208-080		CAP 0.047-50F	A.....
C	106	87-A10-189-040		CAP, E 220-10	A.....
C	115	87-010-182-080		C-CAP, S 2200P-50 B	A.....
C	114	87-010-182-080		C-CAP, S 2200P-50 B	A.....
C	119	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	118	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	112	87-010-312-080		C-CAP, S 15P-50 CH	A.....
C	113	87-010-316-080		C-CAP, S 33P-50 CH	A.....
C	111	87-010-320-080		CHIP CAP 68P	A.....
C	116	87-010-498-040		CAP, E 10-16 GAS	A.....
C	110	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	117	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	122	87-010-194-080		CAP, CHIP 0.047	A.....
C	121	87-010-194-080		CAP, CHIP 0.047	A.....
C	125	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	120	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	124	87-010-263-040		CAP, E 100-10	A.....
C	201	87-010-178-080		CHIP CAP 1000P	A.....
C	202	87-010-194-080		CAP, CHIP 0.047	A.....
C	204	87-010-497-040		CAP, E 4.7-35 GAS	A.....
C	205	87-010-497-040		CAP, E 4.7-35 GAS	A.....
C	207	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	209	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	208	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	206	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	203	87-A10-797-040		CAP, E 47-35 M 5L SRM	A.....
C	212	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	216	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	217	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	213	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	218	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	215	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	214	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	211	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	210	87-012-157-080		C-CAP, S 330P-50 CH	A.....
C	376	87-010-173-080		C-CAP, S 390P-50 SL	A.....
C	375	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	372	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	378	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	373	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	371	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	377	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	406	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	404	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	402	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
C	408	87-010-196-080		CHIP CAPACITOR, 0.1-25	A.....
CN	101	87-099-720-010		CONN, 30P TYK-B(P)	A.....
CN	302	87-009-345-010		CONN, 2P PH H	A.....
CN	701	87-A60-136-010		CONN, 11P V FE	A.....
CN	701	87-A60-140-010		CONN, 15P V FE	A.....
CN	801	87-A60-138-010		CONN, 13P V FE	A.....
D	106	87-A40-470-080		DIODE, 1SS254	A.....
D	101	87-A40-470-080		DIODE, 1SS254	A.....
D	108	87-A40-470-080		DIODE, 1SS254	A.....
D	107	87-A40-470-080		DIODE, 1SS254	A.....
D	105	87-A40-504-040		C-DIODE, KDS184	A.....
D	104	87-A40-504-040		C-DIODE, KDS184	A.....
D	102	87-A40-505-040		C-DIODE, KDS181	A.....
D	103	87-A40-509-080		ZENER, MTZJ6.8C	A.....
D	319	87-A40-470-080		DIODE, 1SS254	A.....
D	318	87-A40-470-080		DIODE, 1SS254	A.....
D	316	87-A40-505-040		C-DIODE, KDS181	A.....
D	314	87-A40-505-040		C-DIODE, KDS181	A.....
D	311	87-A40-505-040		C-DIODE, KDS181	A.....
D	312	87-A40-505-040		C-DIODE, KDS181	A.....
D	315	87-A40-505-040		C-DIODE, KDS181	A.....
D	310	87-A40-505-040		C-DIODE, KDS181	A.....
D	317	87-A40-505-040		C-DIODE, KDS181	A.....
D	313	87-A40-505-040		C-DIODE, KDS181	A.....
D	322	87-A40-470-080		DIODE, 1SS254	A.....
D	324	87-A40-470-080		DIODE, 1SS254	A.....
D	320	87-A40-470-080		DIODE, 1SS254	A.....
D	328	87-A40-470-080		DIODE, 1SS254	A.....
D	325	87-A40-470-080		DIODE, 1SS254	A.....

ELECTRICAL MAIN PARTS LIST - 2

D	330	87-A40-470-080	DIODE, 1SS254	A.....
D	373	87-A40-470-080	DIODE, 1SS254	A.....
D	371	87-A40-470-080	DIODE, 1SS254	A.....
D	372	87-A40-470-080	DIODE, 1SS254	A.....
D	374	87-A40-470-080	DIODE, 1SS254	A.....
D	402	87-A40-470-080	DIODE, 1SS254	A.....
D	405	87-A40-470-080	DIODE, 1SS254	A.....
D	401	87-A40-470-080	DIODE, 1SS254	A.....
D	404	87-A40-470-080	DIODE, 1SS254	A.....
D	403	87-A40-470-080	DIODE, 1SS254	A.....
D	409	87-A40-470-080	DIODE, 1SS254	A.....
D	410	87-A40-470-080	DIODE, 1SS254	A.....
D	701	87-A40-505-040	C-DIODE, KDS181	A.....
D	801	87-A40-470-080	DIODE, 1SS254	A.....
FL	201	88-NF7-651-010	FL, BJ602GK	A.....
IC	102	87-070-083-010	IC, GP1U281X	A.....
IC	101	88-NF7-690-010	C-IC, LC866560W-5G73	A.....
IC	101	88-NF7-750-010	C-IC, LC866560W-5H26	A.....
IC	371	87-A20-083-010	IC, BA3835S	A.....
IC	403	87-017-915-080	IC, BU4094BCF	A.....
IC	402	87-017-915-080	IC, BU4094BCF	A.....
IC	401	87-017-915-080	IC, BU4094BCF	A.....
IC	404	87-070-289-040	IC, BU 2092F	A.....
LED	403	87-070-197-080	LED, SLP7118C-51-S-T1	A.....
LED	405	87-070-197-080	LED, SLP7118C-51-S-T1	A.....
LED	409	87-070-197-080	LED, SLP7118C-51-S-T1	A.....
LED	401	87-070-197-080	LED, SLP7118C-51-S-T1	A.....
LED	407	87-070-197-080	LED, SLP7118C-51-S-T1	A.....
LED	413	87-070-201-080	LED, SLP9118C-51-S-T1	A.....
LED	411	87-070-201-080	LED, SLP9118C-51-S-T1	A.....
LED	412	87-070-201-080	LED, SLP9118C-51-S-T1	A.....
LED	415	87-070-201-080	LED, SLP9118C-51-S-T1	A.....
LED	414	87-070-201-080	LED, SLP9118C-51-S-T1	A.....
LED	417	87-070-281-080	LED, SLZ736A-25-S-T1	A.....
LED	419	87-070-281-080	LED, SLZ736A-25-S-T1	A.....
LED	423	87-070-281-080	LED, SLZ736A-25-S-T1	A.....
LED	421	87-070-281-080	LED, SLZ736A-25-S-T1	A.....
LED	425	87-070-281-080	LED, SLZ736A-25-S-T1	A.....
LED	427	87-070-281-080	LED, SLZ736A-25-S-T1	A.....
LED	429	87-A40-380-080	LED, SEL6510C-TP5 GRN	A.....
LED	428	87-A40-380-080	LED, SEL6510C-TP5 GRN	A.....
LED	430	87-A40-380-080	LED, SEL6510C-TP5 GRN	A.....
LED	431	87-A40-380-080	LED, SEL6510C-TP5 GRN	A.....
LED	435	87-A40-380-080	LED, SEL6510C-TP5 GRN	A.....
LED	436	87-A40-380-080	LED, SEL6510C-TP5 GRN	A.....
LED	437	87-A40-380-080	LED, SEL6510C-TP5 GRN	A.....
LED	433	87-A40-380-080	LED, SEL6510C-TP5 GRN	A.....
LED	432	87-A40-380-080	LED, SEL6510C-TP5 GRN	A.....
LED	434	87-A40-380-080	LED, SEL6510C-TP5 GRN	A.....
LED	449	87-070-278-010	LED, SLZ-738A-24-S	A.....
LED	447	87-070-278-010	LED, SLZ-738A-24-S	A.....
LED	444	87-070-278-010	LED, SLZ-738A-24-S	A.....
LED	446	87-070-278-010	LED, SLZ-738A-24-S	A.....
LED	448	87-070-290-010	LED, SLZ 936-30-S	A.....
LED	445	87-070-290-010	LED, SLZ 936-30-S	A.....
LED	459	87-A90-825-040	LED, SLP-9131C-81H-S-T1 RED	A.....
LED	455	87-A90-825-040	LED, SLP-9131C-81H-S-T1 RED	A.....
LED	454	87-A90-825-040	LED, SLP-9131C-81H-S-T1 RED	A.....
LED	453	87-A90-825-040	LED, SLP-9131C-81H-S-T1 RED	A.....
LED	457	87-A90-825-040	LED, SLP-9131C-81H-S-T1 RED	A.....
LED	456	87-A90-825-040	LED, SLP-9131C-81H-S-T1 RED	A.....
LED	458	87-A90-825-040	LED, SLP-9131C-81H-S-T1 RED	A.....
LED	450	87-A90-825-040	LED, SLP-9131C-81H-S-T1 RED	A.....
LED	451	87-A90-825-040	LED, SLP-9131C-81H-S-T1 RED	A.....
Q	102	87-026-263-080	C-TR, RN1410	A.....
Q	104	87-026-610-080	TR, KTC3198GR	A.....
Q	103	87-A30-071-080	C-TR, RT1N 144C	A.....
Q	101	87-A30-087-080	C-FET, 2SK2158	A.....
Q	301	87-A30-076-080	C-TR, 2SC3052F	A.....
Q	407	87-026-580-080	C-TR, DTA123JK	A.....
Q	405	87-026-580-080	C-TR, DTA123JK	A.....
Q	406	87-026-580-080	C-TR, DTA123JK	A.....
Q	403	87-026-580-080	C-TR, DTA123JK	A.....
Q	404	87-026-580-080	C-TR, DTA123JK	A.....
Q	401	87-A30-073-080	C-TR, RT1N 141C	A.....
Q	402	87-A30-073-080	C-TR, RT1N 141C	A.....
Q	409	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	408	87-A30-075-080	C-TR, 2SA1235F	A.....
Q	413	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	418	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	414	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	415	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	411	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	416	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	419	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	410	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	412	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	417	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	422	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	420	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	421	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	424	87-A30-074-080	C-TR, RT1P 141C	A.....

ELECTRICAL MAIN PARTS LIST - 3

Q	423	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	704	87-A30-073-080	C-TR, RT1N 141C	A.....
Q	702	87-A30-085-070	C-TR, CSA1362GR	A.....
Q	703	87-A30-085-070	C-TR, CSA1362GR	A.....
Q	701	89-112-965-080	TR, 2SA1296 (0.75W)	A.....
S	102	87-A90-535-010	SW, RTRY EC16B24304	A.....
S	101	87-A90-791-010	SW, RTRY EC16B12204	A.....
S	303	87-A90-095-080	SW, TACT EV011G04M	A.....
S	307	87-A90-095-080	SW, TACT EV011G04M	A.....
S	308	87-A90-095-080	SW, TACT EV011G04M	A.....
S	304	87-A90-095-080	SW, TACT EV011G04M	A.....
S	302	87-A90-095-080	SW, TACT EV011G04M	A.....
S	306	87-A90-095-080	SW, TACT EV011G04M	A.....
S	305	87-A90-095-080	SW, TACT EV011G04M	A.....
S	309	87-A90-095-080	SW, TACT EV011G04M	A.....
S	301	87-A90-095-080	SW, TACT EV011G04M	A.....
S	312	87-A90-095-080	SW, TACT EV011G04M	A.....
S	314	87-A90-095-080	SW, TACT EV011G04M	A.....
S	310	87-A90-095-080	SW, TACT EV011G04M	A.....
S	311	87-A90-095-080	SW, TACT EV011G04M	A.....
S	313	87-A90-095-080	SW, TACT EV011G04M	A.....
S	326	87-A90-095-080	SW, TACT EV011G04M	A.....
S	324	87-A90-095-080	SW, TACT EV011G04M	A.....
S	325	87-A90-095-080	SW, TACT EV011G04M	A.....
S	323	87-A90-095-080	SW, TACT EV011G04M	A.....
S	327	87-A90-095-080	SW, TACT EV011G04M	A.....
S	322	87-A90-095-080	SW, TACT EV011G04M	A.....
S	321	87-A90-095-080	SW, TACT EV011G04M	A.....
S	331	87-A90-095-080	SW, TACT EV011G04M	A.....
S	335	87-A90-095-080	SW, TACT EV011G04M	A.....
S	333	87-A90-095-080	SW, TACT EV011G04M	A.....
S	332	87-A90-095-080	SW, TACT EV011G04M	A.....
S	334	87-A90-095-080	SW, TACT EV011G04M	A.....
S	348	87-A90-095-080	SW, TACT EV011G04M	A.....
S	344	87-A90-095-080	SW, TACT EV011G04M	A.....
S	349	87-A90-095-080	SW, TACT EV011G04M	A.....
S	347	87-A90-095-080	SW, TACT EV011G04M	A.....
S	342	87-A90-095-080	SW, TACT EV011G04M	A.....
S	345	87-A90-095-080	SW, TACT EV011G04M	A.....
S	341	87-A90-095-080	SW, TACT EV011G04M	A.....
S	346	87-A90-095-080	SW, TACT EV011G04M	A.....
S	343	87-A90-095-080	SW, TACT EV011G04M	A.....
S	351	87-A90-095-080	SW, TACT EV011G04M	A.....
S	355	87-A90-095-080	SW, TACT EV011G04M	A.....
S	350	87-A90-095-080	SW, TACT EV011G04M	A.....
S	354	87-A90-095-080	SW, TACT EV011G04M	A.....
S	353	87-A90-095-080	SW, TACT EV011G04M	A.....
S	352	87-A90-095-080	SW, TACT EV011G04M	A.....
X	101	87-A70-070-080	VIB, CER 5.76MHZ CRHF	A.....
C	602	87-010-186-080	CAP, CHIP 4700P	A.....
C	605	87-010-196-080	CHIP, CAPACITOR, 0.1-25	A.....
C	608	87-010-196-080	CHIP, CAPACITOR, 0.1-25	A.....
C	607	87-010-321-080	CHIP, CAPACITOR, 82P(J)	A.....
C	606	87-010-322-080	C-CAP, S 100P-50 CH	A.....
C	604	87-010-382-040	CAP, E 22-25 SME	A.....
C	601	87-010-391-040	CAP, E 10-35 SME	A.....
C	603	87-010-498-040	CAP, E 10-16 GAS	A.....
C	609	87-010-545-040	CAP, E 0.22-50 SME	A.....
C	612	87-010-176-080	C-CAP, S 680P-50 SL	A.....
C	611	87-010-177-080	C-CAP, S 820P-50 SL	A.....
C	610	87-010-322-080	C-CAP, S 100P-50 CH	A.....
C	614	87-A10-189-040	CAP, E 220-10	A.....
C	652	87-010-196-080	CHIP, CAPACITOR, 0.1-25	A.....
C	653	87-010-196-080	CHIP, CAPACITOR, 0.1-25	A.....
C	651	87-010-401-040	CAP, E 1-50 SME	A.....
CN	501	87-A60-143-010	CONN, 18P V FE	A.....
D	601	87-A40-470-080	DIODE, 1SS254	A.....
D	651	87-A40-470-080	DIODE, 1SS254	A.....
FB	601	87-008-372-080	FILTER, EMI BL OIRNI	A.....
IC	601	87-017-888-080	IC, NJM4558MD	A.....
J	601	87-A60-651-010	JACK, 3.5MONO	A.....
J	602	87-A60-651-010	JACK, 3.5MONO	A.....
Q	601	87-A30-087-080	C-FET, 2SK2158	A.....
Q	651	87-A30-076-080	C-TR, 2SC3052F	A.....
FC	101	87-A90-505-080	FUSE, CLAMP, TP00351-51	A.....
FC	102	87-A90-505-080	FUSE, CLAMP, TP00351-51	A.....
PR	103	87-026-682-080	PROTECTOR, 10A 60V491	A.....
PR	102	87-026-682-080	PROTECTOR, 10A 60V491	A.....
PR	104	87-026-682-080	PROTECTOR, 10A 60V491	A.....
PR	101	87-026-682-080	PROTECTOR, 10A 60V491	A.....
PR	103	87-026-691-080	FUSE, 10A 125V 251	.....
PR	102	87-026-691-080	FUSE, 10A 125V 251	.....
PR	101	87-026-691-080	FUSE, 10A 125V 251	.....
PR	104	87-026-691-080	FUSE, 10A 125V 251	.....
PR	106	87-A90-195-080	PROTECTOR, 7A 125V 49	A.....
PR	105	87-A90-195-080	PROTECTOR, 7A 125V 49	A.....
PR	105	87-A90-210-080	FUSE, 7A 125V 251	.....
PR	106	87-A90-210-080	FUSE, 7A 125V 251	.....
T	102	87-A60-317-010	TERMINAL, 1P MSC	A.....
T	101	87-A60-317-010	TERMINAL, 1P MSC	A.....
W	104	85-NF5-628-010	F-CABLE 7P-2.5	A.....
WH	101	87-A90-460-010	HLDR, WIRE 2.5-7P	A.....

ELECTRICAL MAIN PARTS LIST - 4

		87-067-703-010	TAPPING SCREW, BVT2+3-10	A.....
C	109	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	105	87-012-368-080	C-CAP, S 0.1-50 F	A.....
C	107	87-012-368-080	C-CAP, S 0.1-50 F	A.....
C	108	87-012-368-080	C-CAP, S 0.1-50 F	A.....
C	106	87-012-368-080	C-CAP, S 0.1-50 F	A.....
C	112	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	111	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	110	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	113	87-010-247-080	CAP, ELECT 100-50V	A.....
C	116	87-010-247-080	CAP, ELECT 100-50V	A.....
C	119	87-010-260-080	CAP, ELECT 47-25V	A.....
C	118	87-010-263-080	CAP, ELECT 100-10V	A.....
C	117	87-010-430-080	CAP, ELECT 100-63	A.....
C	124	87-010-112-080	CAP, ELECT 100-16V	A.....
C	125	87-010-235-080	CAP, E 470-16 SME	A.....
C	123	87-010-247-080	CAP, ELECT 100-50V	A.....
C	122	87-010-263-080	CAP, ELECT 100-10V	.....
C	128	87-010-394-080	CAP ELECT220-35V	.....
C	120	87-010-403-080	CAP, ELECT 3.3-50V	A.....
C	121	87-012-140-080	CAP 470P	A.....
C	130	87-010-194-080	CAP, CHIP 0.047	A.....
C	131	87-010-194-080	CAP, CHIP 0.047	A.....
C	151	87-010-917-090	CAP, E 3300-50 M SMG	A.....
C	152	87-010-917-090	CAP, E 3300-50 M SMG	A.....
C	154	87-010-928-090	CAP, E 4700-25 SMG	A.....
C	153	87-010-928-090	CAP, E 4700-25 SMG	A.....
D	102	87-002-225-010	DIODE, DBF40C-K10	.....
D	101	87-002-225-010	DIODE, DBF40C-K10	A.....
D	106	87-070-274-080	DIODE, 1N4003 SEM	A.....
D	108	87-070-274-080	DIODE, 1N4003 SEM	A.....
D	109	87-070-274-080	DIODE, 1N4003 SEM	A.....
D	107	87-070-274-080	DIODE, 1N4003 SEM	A.....
D	102	87-A40-115-060	DIODE, RS603M	A.....
D	103	87-A40-470-080	DIODE, 1SS254	A.....
D	105	87-A40-504-040	C-DIODE, KDS184	A.....
D	104	87-A40-505-040	C-DIODE, KDS181	A.....
D	112	87-A40-308-080	ZENER, DZ10M	A.....
D	110	87-A40-341-080	ZENER, MTZJ 36 A	A.....
D	116	87-A40-505-040	C-DIODE, KDS181	A.....
D	120	87-A40-004-080	ZENER, MTZJ16A	A.....
Q	103	87-026-610-080	TR, KTC3198GR	A.....
Q	109	87-A30-075-080	C-TR, 2SA1235F	A.....
Q	107	87-A30-075-080	C-TR, 2SA1235F	A.....
Q	104	87-A30-076-080	C-TR, 2SC3052F	A.....
Q	106	87-A30-076-080	C-TR, 2SC3052F	A.....
Q	108	87-A30-076-080	C-TR, 2SC3052F	A.....
Q	105	87-A30-196-080	TR, 2SC4115SRS	A.....
Q	102	89-213-702-010	TR, 2SB1370 (1.8W)	A.....
Q	101	89-213-702-010	TR, 2SB1370 (1.8W)	A.....
Q	112	87-026-609-080	TR, KTA1266GR	A.....
Q	111	87-026-609-080	TR, KTA1266GR	A.....
Q	115	87-A30-075-080	C-TR, 2SA1235F	.....
Q	114	87-A30-075-080	C-TR, 2SA1235F	A.....
Q	110	87-A30-076-080	C-TR, 2SC3052F	A.....
R	123	87-022-200-080	RESISTOR, METAL 0.56 1W	.....
RY	101	87-A90-464-010	RELAY, DG12D2-0(M)	A.....
WH	102	87-A90-460-010	HLDR, WIRE 2.5-7P	A.....
C	209	87-010-546-080	CAP, ELECT 0.33-50V	A.....
C	212	87-010-182-080	C-CAP, S 2200P-50 B	.....
C	211	87-010-182-080	C-CAP, S 2200P-50 B	.....
C	211	87-010-183-080	C-CAP, S 2700P-50 B	A.....
C	212	87-010-183-080	C-CAP, S 2700P-50 B	A.....
C	214	87-010-186-080	CAP, CHIP 4700P	A.....
C	213	87-010-186-080	CAP, CHIP 4700P	A.....
C	216	87-010-403-080	CAP, ELECT 3.3-50V	A.....
C	215	87-010-403-080	CAP, ELECT 3.3-50V	A.....
C	210	87-010-546-080	CAP, ELECT 0.33-50V	A.....
C	218	87-A10-899-080	CAP, E 47-25 M BP SME	A.....
C	217	87-A10-899-080	CAP, E 47-25 M BP SME	A.....
C	225	87-010-176-080	C-CAP, S 680P-50 SL	A.....
C	226	87-010-176-080	C-CAP, S 680P-50 SL	A.....
C	223	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	224	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	222	87-010-213-080	C-CAP, S 0.015-50 B	A.....
C	221	87-010-213-080	C-CAP, S 0.015-50 B	A.....
C	229	87-A10-812-080	C-CAP, S 220P-200 J CH	A.....
C	235	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	234	87-010-544-080	CAP, ELECT 0.1-50V	A.....
C	233	87-010-544-080	CAP, ELECT 0.1-50V	A.....
C	237	87-012-368-080	C-CAP, S 0.1-50 F	A.....
C	239	87-012-368-080	C-CAP, S 0.1-50 F	A.....
C	238	87-012-368-080	C-CAP, S 0.1-50 F	A.....
C	230	87-A10-812-080	C-CAP, S 220P-200 J CH	A.....
C	247	87-010-178-080	CHIP CAP 1000P	A.....
C	248	87-010-178-080	CHIP CAP 1000P	A.....
C	242	87-010-318-080	C-CAP, S 47P-50 CH	A.....
C	241	87-010-318-080	C-CAP, S 47P-50 CH	A.....
C	240	87-012-368-080	C-CAP, S 0.1-50 F	A.....
C	280	87-010-188-080	CAP, CHIP 6800P	A.....
C	299	87-010-197-080	CAP, CHIP 0.01 DM	A.....
D	208	87-A40-470-080	DIODE, 1SS254	A.....

ELECTRICAL MAIN PARTS LIST - 5

D	206	87-A40-470-080	DIODE, 1SS254	A.....
D	207	87-A40-470-080	DIODE, 1SS254	A.....
D	203	87-A40-470-080	DIODE, 1SS254	A.....
D	205	87-A40-470-080	DIODE, 1SS254	A.....
D	202	87-A40-470-080	DIODE, 1SS254	A.....
D	209	87-A40-470-080	DIODE, 1SS254	A.....
D	204	87-A40-470-080	DIODE, 1SS254	A.....
D	201	87-A40-470-080	DIODE, 1SS254	A.....
D	213	87-A40-299-080	ZENER, DZ5.1M	A.....
D	214	87-A40-299-080	ZENER, DZ5.1M	A.....
D	218	87-A40-470-080	DIODE, 1SS254	A.....
D	210	87-A40-470-080	DIODE, 1SS254	A.....
D	215	87-A40-470-080	DIODE, 1SS254	A.....
D	216	87-A40-470-080	DIODE, 1SS254	A.....
D	217	87-A40-470-080	DIODE, 1SS254	A.....
D	220	87-A40-345-080	ZENER, MTZJ10C	A.....
D	227	87-A40-470-080	DIODE, 1SS254	A.....
D	226	87-A40-488-080	DIODE, 1SS244	A.....
D	225	87-A40-488-080	DIODE, 1SS244	A.....
D	221	87-A40-504-040	C-DIODE, KDS184	A.....
D	232	87-A40-184-090	DIODE, RK34(F)	A.....
D	231	87-A40-184-090	DIODE, RK34(F)	A.....
D	233	87-A40-470-080	DIODE, 1SS254	A.....
D	234	87-A40-470-080	DIODE, 1SS254	A.....
D	280	87-A40-470-080	DIODE, 1SS254	A.....
D	295	87-A40-470-080	DIODE, 1SS254	A.....
J	203	87-033-240-010	TERMINAL, SP 4P32SV1-05	A.....
J	211	87-A60-483-010	JACK, DIA6.3 BLK ST W/S KM	A.....
L	201	87-003-383-010	COIL, 1UH-S	A.....
L	202	87-003-383-010	COIL, 1UH-S	A.....
Q	209	87-A30-107-070	C-TR, CMBT5401	A.....
Q	207	87-A30-107-070	C-TR, CMBT5401	A.....
Q	208	87-A30-107-070	C-TR, CMBT5401	A.....
Q	211	87-A30-076-080	C-TR, 2SC3052F	A.....
Q	214	87-A30-076-080	C-TR, 2SC3052F	A.....
Q	213	87-A30-076-080	C-TR, 2SC3052F	A.....
Q	212	87-A30-076-080	C-TR, 2SC3052F	A.....
Q	210	87-A30-107-070	C-TR, CMBT5401	A.....
Q	218	87-A30-137-010	TR, 2SD2494	A.....
Q	217	87-A30-137-010	TR, 2SD2494	A.....
Q	219	87-A30-138-010	TR, 2SB1625	A.....
Q	215	87-A30-190-080	TR, CC5551	A.....
Q	216	87-A30-190-080	TR, CC5551	A.....
Q	227	87-A30-072-080	C-TR, RT1P 144C	A.....
Q	226	87-A30-075-080	C-TR, 2SA1235F	A.....
Q	225	87-A30-076-080	C-TR, 2SC3052F	A.....
Q	222	87-A30-106-070	C-TR, CMBT5551	A.....
Q	221	87-A30-106-070	C-TR, CMBT5551	A.....
Q	220	87-A30-138-010	TR, 2SB1625	A.....
Q	224	87-A30-186-010	FET, 2SK3053	A.....
Q	223	87-A30-186-010	FET, 2SK3053	A.....
Q	280	87-A30-107-070	C-TR, CMBT5401	A.....
Q	291	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	290	87-A30-107-070	C-TR, CMBT5401	A.....
Q	295	87-A30-221-040	C-TR, DTA114WK	A.....
R	239	87-A00-257-080	RES, M/F 0.15-1W J	A.....
R	237	87-A00-257-080	RES, M/F 0.15-1W J	A.....
R	238	87-A00-257-080	RES, M/F 0.15-1W J	A.....
R	240	87-A00-257-080	RES, M/F 0.15-1W J	A.....
TH	201	87-A90-221-080	C-THMS, 100K	A.....
TH	202	87-A90-221-080	C-THMS, 100K	A.....
C	309	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	307	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	302	87-010-318-080	C-CAP, S 47P-50 CH	A.....
C	301	87-010-318-080	C-CAP, S 47P-50 CH	A.....
C	306	87-012-145-080	CAP, CHIP S 270P CH	A.....
C	305	87-012-145-080	CAP, CHIP S 270P CH	A.....
C	304	87-012-157-080	C-CAP, S 330P-50 CH	A.....
C	303	87-012-157-080	C-CAP, S 330P-50 CH	A.....
C	315	87-010-178-080	CHIP CAP 1000P	A.....
C	316	87-010-178-080	CHIP CAP 1000P	A.....
C	313	87-010-179-080	CAP, CHIP S B1200P	A.....
C	314	87-010-179-080	CAP, CHIP S B1200P	A.....
C	314	87-010-180-080	C-CER 1500P	A.....
C	313	87-010-180-080	C-CER 1500P	A.....
C	315	87-010-182-080	C-CAP, S 2200P-50 B	A.....
C	316	87-010-182-080	C-CAP, S 2200P-50 B	A.....
C	310	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	312	87-010-198-080	CAP, CHIP 0.022	A.....
C	311	87-010-198-080	CAP, CHIP 0.022	A.....
C	319	87-012-141-080	CHIP-CAPACITOR, 0.22-16F	A.....
C	317	87-012-142-080	CAP, S 0.33-16	A.....
C	318	87-012-142-080	CAP, S 0.33-16	A.....
C	324	87-010-260-080	CAP, ELECT 47-25V	A.....
C	325	87-010-370-080	CAP, E 330-6.3 SME	A.....
C	328	87-010-404-080	CAP, ELECT 4.7-50V	A.....
C	327	87-010-404-080	CAP, ELECT 4.7-50V	A.....
C	321	87-012-141-080	CHIP-CAPACITOR, 0.22-16F	A.....
C	320	87-012-141-080	CHIP-CAPACITOR, 0.22-16F	A.....
C	322	87-012-141-080	CHIP-CAPACITOR, 0.22-16F	A.....
C	322	87-016-492-080	C-CAP, S 0.33-16 FZ	A.....
C	321	87-016-492-080	C-CAP, S 0.33-16 FZ	A.....

ELECTRICAL MAIN PARTS LIST - 6

C	337	87-010-196-080	CHIP CAPACITOR,0.1-25	A.....
C	339	87-010-196-080	CHIP CAPACITOR,0.1-25	A.....
C	332	87-010-196-080	CHIP CAPACITOR,0.1-25	A.....
C	335	87-010-401-080	CAP, ELECT 1-50V	A.....
C	336	87-010-401-080	CAP, ELECT 1-50V	A.....
C	340	87-010-196-080	CHIP CAPACITOR,0.1-25	A.....
C	354	87-010-175-080	CAP 560P	A.....
C	359	87-010-183-080	C-CAP, S 2700P-50 B	A.....
C	358	87-010-183-080	C-CAP, S 2700P-50 B	A.....
C	357	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	356	87-010-260-080	CAP, ELECT 47-25V	A.....
C	351	87-012-140-080	CAP 470P	A.....
C	352	87-012-140-080	CAP 470P	A.....
C	355	87-012-349-080	C-CAP, S 1000P-50 CH	A.....
C	360	87-010-183-080	C-CAP, S 2700P-50 B	A.....
C	371	87-010-177-080	C-CAP, S 820P-50 SL	A.....
C	372	87-010-177-080	C-CAP, S 820P-50 SL	A.....
C	374	87-010-179-080	CAP,CHIP S B1200P	A.....
C	373	87-010-179-080	CAP,CHIP S B1200P	A.....
C	370	87-010-196-080	CHIP CAPACITOR,0.1-25	A.....
C	378	87-010-196-080	CHIP CAPACITOR,0.1-25	A.....
C	379	87-010-382-080	CAP, ELECT 22-25V	A.....
C	376	87-010-545-080	CAP, ELECT 0.22-50V	A.....
C	375	87-010-545-080	CAP, ELECT 0.22-50V	A.....
C	374	87-016-083-080	C-CAP, S 0.15-16 RK	A.....
C	373	87-016-083-080	C-CAP, S 0.15-16 RK	A.....
C	385	87-010-184-080	CHIP CAPACITOR 3300P(K)	A.....
C	386	87-010-196-080	CHIP CAPACITOR,0.1-25	A.....
C	381	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	383	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	382	87-010-312-080	C-CAP, S 15P-50 CH	A.....
C	382	87-010-318-080	C-CAP, S 47P-50 CH	A.....
C	380	87-010-382-080	CAP, ELECT 22-25V	A.....
C	384	87-010-402-080	CAP, ELECT 2.2-50V	A.....
C	387	87-012-145-080	CAP, CHIP S 270P CH	A.....
C	392	87-010-319-080	C-CAP, S 56P-50 CH	A.....
C	394	87-010-319-080	C-CAP, S 56P-50 CH	A.....
C	393	87-010-319-080	C-CAP, S 56P-50 CH	A.....
C	391	87-010-319-080	C-CAP, S 56P-50 CH	A.....
CN	301	87-099-827-010	CONN, 3P S2M-3W	A.....
CN	351	87-099-832-010	CONN, 8P S2M-8W	A.....
D	351	87-A40-470-080	DIODE, 1SS254	A.....
D	352	87-A40-505-040	C-DIODE, KDS181	A.....
FB	301	87-008-372-080	FILTER, EMI BL OIRNI	A.....
IC	301	87-070-121-010	IC, HA12185NT	A.....
IC	302	87-A20-355-010	IC, CXA1553P	A.....
IC	303	87-A20-783-040	C-IC, BA7762AFS	A.....
L	302	87-A50-049-010	COIL, TRAP 85K(COI)	A.....
L	301	87-A50-049-010	COIL, TRAP 85K(COI)	A.....
L	351	87-007-342-010	COIL, OSC 85K BIAS	A.....
Q	357	87-026-610-080	TR, KTC3198GR	A.....
Q	359	87-026-610-080	TR, KTC3198GR	A.....
Q	358	87-026-610-080	TR, KTC3198GR	A.....
Q	356	87-A30-076-080	C-TR, 2SC3052F	A.....
Q	353	87-A30-087-080	C-FET, 2SK2158	A.....
Q	354	87-A30-087-080	C-FET, 2SK2158	A.....
Q	351	87-A30-087-080	C-FET, 2SK2158	A.....
Q	355	87-A30-105-080	C-TR, RT1P 441C	A.....
Q	360	87-026-238-080	TR, DTC144WK	A.....
Q	383	87-A30-075-080	C-TR, 2SA1235F	A.....
Q	382	87-A30-076-080	C-TR, 2SC3052F	A.....
Q	381	87-A30-076-080	C-TR, 2SC3052F	A.....
SFR	305	87-A90-433-080	SFR, 50K H NVZ6TLTA	A.....
SFR	306	87-A90-433-080	SFR, 50K H NVZ6TLTA	A.....
SFR	302	87-A90-557-080	SFR, 33K H HOKU	A.....
SFR	304	87-A90-557-080	SFR, 33K H HOKU	A.....
SFR	301	87-A90-557-080	SFR, 33K H HOKU	A.....
SFR	303	87-A90-557-080	SFR, 33K H HOKU	A.....
SFR	352	87-A90-433-080	SFR, 50K H NVZ6TLTA	A.....
SFR	351	87-A90-433-080	SFR, 50K H NVZ6TLTA	A.....
C	404	87-010-182-080	C-CAP, S 2200P-50 B	A.....
C	403	87-010-182-080	C-CAP, S 2200P-50 B	A.....
C	405	87-010-193-080	CHIP CAPACITOR,0.033	A.....
C	406	87-010-193-080	CHIP CAPACITOR,0.033	A.....
C	409	87-010-380-080	CAP, ELECT 47-16V	A.....
C	401	87-010-401-080	CAP, ELECT 1-50V	A.....
C	402	87-010-401-080	CAP, ELECT 1-50V	A.....
C	407	87-010-405-080	CAP, ELECT 10-50V	A.....
C	408	87-010-405-080	CAP, ELECT 10-50V	A.....
C	412	87-010-112-080	CAP, ELECT 100-16V	A.....
C	416	87-010-187-080	CAP CHIP S5600P	A.....
C	415	87-010-187-080	CAP CHIP S5600P	A.....
C	410	87-010-380-080	CAP, ELECT 47-16V	A.....
C	411	87-010-405-080	CAP, ELECT 10-50V	A.....
IC	401	87-A20-804-040	C-IC, NJM2152M	A.....
C	516	87-010-196-080	CHIP CAPACITOR,0.1-25	A.....
C	457	87-010-404-080	CAP, ELECT 4.7-50V	A.....
C	458	87-010-404-080	CAP, ELECT 4.7-50V	A.....
C	704	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	703	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	709	87-010-322-080	C-CAP, S 100P-50 CH	A.....
C	701	87-010-381-080	CAP, ELECT 330-16V	A.....

ELECTRICAL MAIN PARTS LIST - 7

C	702	87-010-404-080	CAP, ELECT 4.7-50V	A.....
C	712	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	714	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	713	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	711	87-010-263-080	CAP, ELECT 100-10V	A.....
C	715	87-010-322-080	C-CAP, S 100P-50 CH	A.....
C	725	87-010-178-080	CHIP CAP 1000P	A.....
C	723	87-010-178-080	CHIP CAP 1000P	A.....
C	727	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	728	87-010-248-080	CAP, ELECT 220-10V	A.....
C	721	87-010-312-080	C-CAP, S 15P-50 CH	A.....
C	722	87-010-312-080	C-CAP, S 15P-50 CH	A.....
D	721	87-A40-234-080	ZENER, MTZJ5.6A	A.....
D	722	87-A40-470-080	DIODE, 1SS254	A.....
IC	721	86-NFZ-655-010	IC, LC72131D(Z)	A.....
Q	711	87-A30-196-080	TR, 2SC4115SRS	A.....
X	721	87-A70-061-010	VIB, XTAL 4.500MHZ CSA-309	A.....
C	758	87-010-149-080	C-CAP, S 5P-50 CH	A.....
C	755	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	756	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	757	87-010-318-080	C-CAP, S 47P-50 CH	A.....
C	759	87-012-156-080	C-CAP, S 220P-50 CH	A.....
C	763	87-010-194-080	CAP, CHIP 0.047	A.....
C	761	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	762	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	765	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	768	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	766	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	764	87-010-319-080	C-CAP, S 56P-50 CH	A.....
C	767	87-010-405-080	CAP, ELECT 10-50V	A.....
C	769	87-010-408-080	CAP, ELECT 47-50V	A.....
C	760	87-012-156-080	C-CAP, S 220P-50 CH	A.....
C	773	87-010-179-080	CAP, CHIP S B1200P	A.....
C	772	87-010-194-080	CAP, CHIP 0.047	A.....
C	773	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	776	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	774	87-010-263-080	CAP, ELECT 100-10V	A.....
C	777	87-010-400-080	CAP, ELECT 0.47-50V	A.....
C	779	87-010-401-080	CAP, ELECT 1-50V	A.....
C	778	87-010-401-080	CAP, ELECT 1-50V	A.....
C	775	87-010-404-080	CAP, ELECT 4.7-50V	A.....
C	771	87-010-407-080	CAP, ELECT 33-50V	A.....
C	770	87-015-821-080	C-CAP 0.047	A.....
C	789	87-010-179-080	CAP, CHIP S B1200P	A.....
C	787	87-010-186-080	CAP, CHIP 4700P	A.....
C	788	87-010-186-080	CAP, CHIP 4700P	A.....
C	780	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	784	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	786	87-010-403-080	CAP, ELECT 3.3-50V	A.....
C	785	87-010-403-080	CAP, ELECT 3.3-50V	A.....
C	782	87-010-405-080	CAP, ELECT 10-50V	A.....
C	781	87-010-405-080	CAP, ELECT 10-50V	A.....
C	783	87-015-819-080	CAPACITOR, 0.01	A.....
C	793	87-010-177-080	C-CAP, S 820P-50 SL	A.....
C	790	87-010-179-080	CAP, CHIP S B1200P	A.....
C	797	87-010-180-080	C-CER 1500P	A.....
C	798	87-010-180-080	C-CER 1500P	A.....
C	793	87-010-180-080	C-CER 1500P	A.....
C	798	87-010-181-080	CAP, CHIP S 1800P	A.....
C	797	87-010-181-080	CAP, CHIP S 1800P	A.....
C	799	87-010-194-080	CAP, CHIP 0.047	A.....
C	796	87-010-403-080	CAP, ELECT 3.3-50V	A.....
C	791	87-010-405-080	CAP, ELECT 10-50V	A.....
C	794	87-010-406-080	CAP, ELECT 22-50	A.....
C	795	87-010-596-080	CAP, S 0.047-16	A.....
D	773	87-A40-470-080	DIODE, 1SS254	A.....
D	771	87-A40-470-080	DIODE, 1SS254	A.....
IC	771	87-A20-438-010	IC, LA1837	A.....
IC	771	87-A20-913-010	IC, LA1837NL	A.....
L	771	87-A50-266-010	COIL, FM DET-2N(TOK)	A.....
L	772	87-A90-733-010	FLTR, PCFAZH-450 (TOK)	A.....
L	781	87-005-847-080	COIL, 2.2UH(CECS)	A.....
C	859	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	865	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	867	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	869	87-010-314-080	C-CAP, S 22P-50V	A.....
C	868	87-010-316-080	C-CAP, S 33P-50 CH	A.....
C	864	87-010-405-080	CAP, ELECT 10-50V	A.....
C	866	87-010-405-080	CAP, ELECT 10-50V	A.....
C	863	87-012-140-080	CAP 470P	A.....
C	861	87-012-156-080	C-CAP, S 220P-50 CH	A.....
C	862	87-012-156-080	C-CAP, S 220P-50 CH	A.....
IC	851	87-A20-440-040	C-IC, BU1920FS	A.....
Q	852	87-A30-073-080	C-TR, RT1N 141C	A.....
Q	853	87-A30-076-080	C-TR, 2SC3052F	A.....
Q	851	87-A30-076-080	C-TR, 2SC3052F	A.....
X	851	87-A70-091-010	VIB, XTAL 4.332MHZ CSA-309	A.....
C	814	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	812	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	829	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	828	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	823	87-010-197-080	CAP, CHIP 0.01 DM	A.....

ELECTRICAL MAIN PARTS LIST - 8

C	821	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	822	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	820	87-010-408-080	CAP, ELECT 47-50V	A.....
C	942	87-010-151-080	C-CAP, S 7P-50 CH	A.....
C	940	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	947	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	949	87-014-049-080	CAP, PP 470P-100 J	A.....
C	959	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	952	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	958	87-010-197-080	CAP, CHIP 0.01 DM	A.....
C	957	87-010-311-080	CAP, 12P	A.....
C	961	87-010-152-080	C-CAP, S 8P-50 CH	A.....
C	960	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	962	87-010-401-080	CAP, ELECT 1-50V	A.....
CF	802	82-785-747-010	CF MS2 GHY R	A.....
CF	802	87-008-261-010	FILTER, SFE10.7MA5-A	A.....
CF	801	87-008-261-010	FILTER, SFE10.7MA5-A	A.....
CF	801	87-008-423-010	CERAMIC FILTER, SFE10.7	A.....
D	944	87-A40-470-080	DIODE, 1SS254	A.....
D	942	87-A40-504-040	C-DIODE, KDS184	A.....
FFE	801	A8-6ZA-191-130	6ZA-1 FEENM	A.....
FFE	801	A8-8ZA-190-030	8ZA-1 FEUNM	A.....
FFE	801	A8-8ZA-193-070	8ZA-1 YFEUNC	A.....
J	801	87-A60-202-010	TERMINAL, ANT 4P MSP-154V-02	A.....
J	802	87-A60-427-010	TERMINAL, ANT PAL 2P YKD31-0429	A.....
L	832	87-005-847-080	COIL, 2.2UH(CECS)	A.....
L	942	87-A50-019-010	COIL, OSC LW(COI)	A.....
L	941	87-A50-020-010	COIL, ANT LW(COI)	A.....
L	981	87-NF4-650-010	COIL, AM PACK 4N(TOK)	A.....
L	981	87-NF4-651-010	COIL, AM PACK2N(TOM)	A.....
Q	806	87-A30-072-080	C-TR, RT1P 144C	A.....
Q	805	89-327-143-080	TR, 2SC2714 (0.1W)	A.....
Q	948	87-A30-086-070	C-TR, CSD1306E	A.....
Q	947	89-505-434-540	C-FET, 2SK543(4/5)	A.....
Q	951	87-A30-074-080	C-TR, RT1P 141C	A.....
Q	952	87-A30-086-070	C-TR, CSD1306E	A.....
TC	942	87-011-221-080	CAP, TRIMMER 30P	A.....
C	601	87-010-180-080	C-CER 1500P	A.....
C	602	87-010-180-080	C-CER 1500P	A.....
C	619	87-010-185-080	C-CAP, S 3900P-50 B	A.....
C	613	87-016-081-080	C-CAP, S 0.1-16 RK	A.....
C	614	87-016-081-080	C-CAP, S 0.1-16 RK	A.....
C	620	87-010-185-080	C-CAP, S 3900P-50 B	A.....
C	621	87-010-401-080	CAP, ELECT 1-50V	A.....
C	622	87-010-401-080	CAP, ELECT 1-50V	A.....
C	625	87-010-405-080	CAP, ELECT 10-50V	A.....
C	626	87-010-405-080	CAP, ELECT 10-50V	A.....
C	629	87-010-405-080	CAP, ELECT 10-50V	A.....
C	637	87-010-183-080	C-CAP, S 2700P-50 B	A.....
C	636	87-010-194-080	CAP, CHIP 0.047	A.....
C	635	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	634	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	630	87-010-213-080	C-CAP, S 0.015-50 B	A.....
C	633	87-010-263-080	CAP, ELECT 100-10V	A.....
C	632	87-010-263-080	CAP, ELECT 100-10V	A.....
C	631	87-010-992-080	C-CAP, S 0.047-25 B	A.....
C	641	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	653	87-010-322-080	C-CAP, S 100P-50 CH	A.....
C	654	87-010-322-080	C-CAP, S 100P-50 CH	A.....
C	667	87-010-196-080	CHIP CAPACITOR, 0.1-25	A.....
C	669	87-010-322-080	C-CAP, S 100P-50 CH	A.....
C	671	87-010-322-080	C-CAP, S 100P-50 CH	A.....
C	672	87-010-322-080	C-CAP, S 100P-50 CH	A.....
C	670	87-010-322-080	C-CAP, S 100P-50 CH	A.....
CN	601	87-099-719-010	CONN, 30P TYK-B(X)	A.....
CN	602	87-A60-131-010	CONN, 6P V FE	A.....
D	601	87-A40-002-080	ZENER, MTZJ5.1C	A.....
D	602	87-A40-438-080	ZENER, MTZJ4.7A	A.....
IC	601	87-A20-954-040	C-IC, M62445FP-601	A.....
J	601	87-A60-426-010	JACK, PIN 6P YKC21-3835	A.....
Q	601	87-026-609-080	TR, KTA1266GR	A.....

ELECTRICAL MAIN PARTS LIST - 1 (PRO : 8ZA-4)

REF.NO.	PARTNO.	KANRI NO	DESCRIPTION	REF.NO.	PARTNO.	KANRI NO	DESCRIPTION
IC				C327	87-010-196-080		C-CAP,S 0.1-25 Z F
	87-A20-715-010	IC,M62439SP		C333	87-010-263-080		CAP,E 100-10 SME
	87-A20-853-010	C-IC,M62463FP		C400	87-010-378-080		CAP,E 10-16 M SME
	87-017-726-080	C-IC,BU4052BCF		C401	87-010-374-080		CAP,E 47-10 M SME
	87-017-917-080	C-IC,BU4066BCF		C402	87-010-196-080		C-CAP,S 0.1-25 Z F
TRANSISTOR				C403	87-010-154-080		C-CAP,S 10P-50 D CH
	87-A30-190-080	TR,CC5551		C404	87-010-374-080		CAP,E 47-10 M SME
	87-026-609-080	TR,KTA1266GR		C405	87-010-196-080		C-CAP,S 0.1-25 Z F
	87-026-610-080	TR,KTC3198GR		C407	87-010-154-080		C-CAP,S 10P-50 D CH
	87-A30-108-010	TR,2SB1626		C408	87-010-545-080		CAP,E 0.22-50 M SME
	87-A30-109-010	TR,2SD2495		C410	87-010-546-080		CAP,E 0.33-50 SME
	87-A30-214-010	TR,2SB1344		C413	87-010-196-080		C-CAP,S 0.1-25 Z F
	87-A30-215-010	TR,2SD2025		C415	87-010-400-080		CAP,E 0.47-50 M SME
	87-A30-075-080	C-TR,2SA1235F		C416	87-010-400-080		CAP,E 0.47-50 M SME
	87-A30-076-080	C-TR,2SC3052F		C418	87-010-401-080		CAP,E 1-50 M SME
	87-A30-107-070	C-TR,CMBT5401		C419	87-010-260-080		CAP,E 47-25 SME
	87-A30-106-070	C-TR,CMBT5551		C421	87-010-378-080		CAP,E 10-16 M SME
	87-A30-086-070	C-TR,CSD1306E		C422	87-010-378-080		CAP,E 10-16 M SME
	87-A30-087-080	C-FET,2SK2158		C501	87-010-176-080		C-CAP,S 680P-50 J SL
	87-A30-074-080	C-TR,RT1P 141C		C502	87-010-176-080		C-CAP,S 680P-50 J SL
	87-A30-104-080	C-TR,RT1N441C		C503	87-A10-804-080		C-CAP,S 0.1-25 J B
	87-026-223-080	C-TR,DTC143TK		C504	87-A10-804-080		C-CAP,S 0.1-25 J B
DIODE				C505	87-A10-804-080		C-CAP,S 0.1-25 J B
	87-A40-470-080	DIODE,1SS254		C506	87-A10-804-080		C-CAP,S 0.1-25 J B
	87-A40-488-080	DIODE,1SS244		C509	87-010-112-080		CAP,E 100-16 M SME
	87-070-136-080	ZENER,MTZJ5.1B		C510	87-010-221-080		CAP,E 470-10 M SME
	87-A40-348-080	ZENER,MTZJ3.3A		C511	87-A10-891-080		CAP,E 4.7-25 SME(K)
	87-A40-442-080	ZENER,MTZJ9.1A		C512	87-A10-800-080		C-CAP,S 6800P-16 J B
	87-A40-116-060	DIODE,RS403L-B-D-51		C513	87-010-374-080		CAP,E 47-10 M SME
				C514	87-010-196-080		C-CAP,S 0.1-25 Z F
PRO C.B				C515	87-010-401-080		CAP,E 1-50 M SME
C101	87-012-368-080	C-CAP,S 0.1-50 Z F		C516	87-010-401-080		CAP,E 1-50 M SME
C102	87-012-368-080	C-CAP,S 0.1-50 Z F		C518	87-010-546-080		CAP,E 0.33-50 SME
C103	87-010-917-090	CAP,E 3300-50 M SMG		C519	87-010-400-080		CAP,E 0.47-50 M SME
C104	87-010-917-090	CAP,E 3300-50 M SMG		C520	87-010-546-080		CAP,E 0.33-50 SME
C105	87-010-196-080	C-CAP,S 0.1-25 Z F		C521	87-010-546-080		CAP,E 0.33-50 SME
C106	87-010-196-080	C-CAP,S 0.1-25 Z F		C522	87-018-209-080		CAP,TC U 0.1-50 Z F
C111	87-010-178-080	C-CAP,S 1000P-50 K B		C524	87-010-374-080		CAP,E 47-10 M SME
C207	87-010-402-080	CAP,E 2.2-50 M SME		C526	87-010-196-080		C-CAP,S 0.1-25 Z F
C208	87-010-402-080	CAP,E 2.2-50 M SME		C530	87-010-544-080		CAP,E 0.1-50 M SME
C209	87-010-183-080	C-CAP,S 2700P-50 K B		C531	87-010-546-080		CAP,E 0.33-50 SME
C210	87-010-183-080	C-CAP,S 2700P-50 K B		C532	87-010-971-080		C-CAP,S 4700P-50 J B
C211	87-010-404-080	CAP,E 4.7-50 M SME		C533	87-012-349-080		C-CAP,S 1000P-50 J CH
C212	87-010-404-080	CAP,E 4.7-50 M SME		C538	87-010-971-080		C-CAP,S 4700P-50 J B
C217	87-010-408-080	CAP,E 47-50 M SME		C539	87-012-349-080		C-CAP,S 1000P-50 J CH
C218	87-010-408-080	CAP,E 47-50 M SME		C540	87-010-401-080		CAP,E 1-50 M SME
C219	87-A10-596-080	C-CAP,S 100P-100 J CH		C541	87-010-401-080		CAP,E 1-50 M SME
C220	87-A10-596-080	C-CAP,S 100P-100 J CH		C542	87-A10-799-080		C-CAP,S 5600P-16 J B
C221	87-A10-899-080	CAP,E 47-25 M BP		C543	87-A10-802-080		C-CAP,S 0.047-16 J B
C222	87-A10-899-080	CAP,E 47-25 M BP		C544	87-A10-229-080		C-CAP,S 0.68-10 K
C223	87-010-544-080	CAP,E 0.1-50 M SME		C545	87-012-393-080		C-CAP,S 0.22-16 K
C224	87-010-544-080	CAP,E 0.1-50 M SME		C546	87-012-393-080		C-CAP,S 0.22-16 K
C225	87-010-993-080	C-CAP,S 0.056-25 K B		C547	87-010-404-080		CAP,E 4.7-50 M SME
C226	87-010-993-080	C-CAP,S 0.056-25 K B		C548	87-010-404-080		CAP,E 4.7-50 M SME
C227	87-010-196-080	C-CAP,S 0.1-25 Z F		C549	87-012-393-080		C-CAP,S 0.22-16 K
C228	87-010-196-080	C-CAP,S 0.1-25 Z F		C550	87-012-393-080		C-CAP,S 0.22-16 K
C233	87-010-263-080	CAP,E 100-10 SME		C551	87-016-081-080		C-CAP,S 0.1-16 K R
C234	87-010-263-080	CAP,E 100-10 SME		C552	87-A10-802-080		C-CAP,S 0.047-16 J B
C307	87-010-402-080	CAP,E 2.2-50 M SME		C553	87-A10-802-080		C-CAP,S 0.047-16 J B
C309	87-010-183-080	C-CAP, 2700P-50 K B		C554	87-016-081-080		C-CAP,S 0.1-16 K R
C311	87-010-404-080	CAP,E 4.7-50 M SME		C555	87-016-081-080		C-CAP,S 0.1-16 K R
C317	87-010-406-080	CAP,E 22-50 M SME		C556	87-A10-801-080		C-CAP,S 0.022-16 J B
C319	87-A10-596-080	C-CAP,S 100P-100 J CH		C557	87-A10-801-080		C-CAP,S 0.022-16 J B
C321	87-A10-899-080	CAP,E 47-25 M BP		C558	87-016-081-080		C-CAP,S 0.1-16 K R
C323	87-010-544-080	CAP,E 0.1-50 M SME		C579	87-010-402-080		CAP,E 2.2-50 M SME
C325	87-010-993-080	C-CAP,S 0.056-25 K B		C580	87-010-402-080		CAP,E 2.2-50 M SME
				C601	87-010-196-080		C-CAP,S 0.1-25 Z F
				C602	87-010-196-080		C-CAP,S 0.1-25 Z F
				C603	87-010-196-080		C-CAP,S 0.1-25 Z F
				C604	87-010-196-080		C-CAP,S 0.1-25 Z F
				J201	87-A60-561-010		JACK,PIN 4P W/R,B/O
				J601	87-A60-562-010		JACK,PIN 6P W/R

ELECTRICAL MAIN PARTS LIST - 2 (PRO : 8ZA-4)

REF.NO.	PARTNO.	KANRI NO	DESCRIPTION	REF.NO.	PARTNO.	KANRI NO	DESCRIPTION
L201	87-003-383-010		COIL,1UH K	R245	87-A00-258-080		RES,M/F 0.22-1W J
L202	87-003-383-010		COIL,1UH K	R246	87-A00-258-080		RES,M/F 0.22-1W J
L301	87-003-383-010		COIL,1UH K	R343	87-A00-258-080		RES,M/F 0.22-1W J
R243	87-A00-258-080		RES,M/F 0.22-1W J	R345	87-A00-258-080		RES,M/F 0.22-1W J
R244	87-A00-258-080		RES,M/F 0.22-1W J	R509	87-022-214-080		C-RES,S 100K-1/10W F

MECHANICAL PARTS LIST - 1

NOTE: The characters in the suffix column indicate the part usage.

AEZM		XX.....	A.....
REF.NO		KANRI NO.	SUFFIX
	82-NE6-067-010	BADGE, AIWA 30N	A.....
	86-NF6-007-010	WINDOW, TOP	A.....
	86-NF6-101-010	WINDOW, TOP UL	A.....
	87-NB8-005-010	PANEL, LEFT	A.....
	87-NB8-051-010	PANEL, LEFT U	A.....
	87-NBG-006-010	PANEL, CD	A.....
	87-NBG-008-010	WINDOW, CD	A.....
	87-NBG-009-010	WINDOW, CASS 1	A.....
	87-NBG-010-010	WINDOW, CASS 2	A.....
	87-NF6-021-010	PANEL, TOP	A.....
	88-NF7-002-010	PANEL, CONT	A.....
	88-NF7-003-010	BOX, CASS 1 U	A.....
	88-NF7-004-010	BOX, CASS 2 U	A.....
	88-NF7-005-010	PANEL, TRAY	A.....
	88-NF7-007-010	PANEL, JOG	A.....
	88-NF7-049-010	BOX, CASS 2 H	A.....
	88-NF7-051-010	PANEL, CONT PRO1	A.....
	88-NF8-047-010	PANEL, RIGHT 2	A.....
	88-NF8-048-010	PANEL, RIGHT 2 U	A.....
	88-NFU-002-010	WINDOW, DISP PRO	A.....
	88-NFU-003-010	CABI, FR E	A.....
	88-NFU-008-010	CABI, FR U	A.....
	88-NFU-009-010	WINDOW, DISP E	A.....
	88-NFU-010-010	CABI, REAR USTNM	A.....
	88-NFU-013-010	CABI, REAR EZSTNM	A.....
	88-NFU-014-010	CABI, REAR UST	A.....
	87-NBG-011-010	KNOB, RTRY VOL	A.....
	87-NBG-015-010	KEY, POWER	A.....
	87-NBG-019-010	KEY, ECHO	A.....
	87-NBG-023-010	REFLECTOR, FUN	A.....
	88-NF7-006-310	KNOB, RTRY JOG	A.....
	88-NF7-008-010	KEY, BBE	A.....
	88-NF7-009-110	KEY, ASSY OPE	A.....
	88-NF7-013-010	KEY, EDIT	A.....
	88-NF7-014-110	KEY, DSP	A.....
	88-NF7-015-010	REFLECTOR, JOG	A.....
	88-NF7-018-010	KEY, ASSY, DEMO	A.....
	88-NF7-025-010	KEY, EDIT U	A.....
	88-NF7-027-010	KEY, TIMER U	A.....
	88-NF7-033-010	KEY, TIMER E	A.....
	88-NF7-040-110	KEY, DEMO S	A.....
	88-NF7-052-110	KEY, ASSY DEMO U1	A.....
	88-NF7-062-010	KEY, CD	A.....
	88-NFU-012-010	KEY, FUN 5.1CH	A.....
	81-532-080-010	LABEL, CASS. COMPT	A.....
	86-NF6-061-010	REFLECTOR, CASS	A.....
	87-NF6-616-010	CONN ASSY, 8P RPB	A.....
	84-ZG1-245-210	CAP, OPTICAL	A.....
	82-NF5-218-010	SPR-T, EJECT 1 (SIN)	A.....
	82-NF5-219-010	SPR-T, EJECT 2 (SIN)	A.....
	82-NF5-229-010	PLATE, LOCK	A.....
	86-NF9-224-010	SPR-C, LOCK	A.....
	87-NF4-216-010	HLDR, LOCK 1	A.....
	87-NF4-217-010	HLDR, LOCK 2	A.....
	87-NF4-221-010	HLDR, CABLE	A.....
	87-NF8-220-010	DMPR, 150	A.....
	88-NF5-208-010	HLDR, PWB-M N	A.....
	87-067-579-010	TAPPING SCREW, BVT2+3-8	A.....
	87-067-688-010	BVTT+3-6	A.....
	87-067-703-010	TAPPING SCREW, BVT2+3-10	A.....
	87-078-019-010	S-SCREW, IT+4-6	A.....
	87-591-094-410	TAPPING SCREW, QIT+3-6	A.....
	87-721-096-410	QT2+3-10 GLD	A.....
	87-721-097-410	QT2+3-12 GLD	A.....
	87-723-096-410	QT2+3-10W/O SLOT BL	A.....
	87-B10-091-010	UTT2+3-10 W/O BLK	A.....
	87-NF4-224-010	S-SCREW, IT3B+3-8 CU	A.....
	85-NF5-615-010	CABLE, FFC 15P-1.25	A.....
	85-NF5-618-010	CABLE, FFC 13P-1.25	A.....
	87-085-185-010	BUSHING, AC CORD (E)	A.....
	87-085-189-010	BUSHING, CORD (U)	A.....
	88-906-241-110	FF-CABLE, 6P 1.25	A.....
	88-911-201-110	FF-CABLE, 11P 1.25	A.....
	88-918-251-110	FF-CABLE, 18P 1.25 250MM	A.....
C	206	87-010-402-010	CAP, ELECT 2.2-50SME
C	205	87-010-402-010	CAP, ELECT 2.2-50SME
F	101	87-035-364-010	FUSE, 1.6A 250V
F	101	87-035-490-010	FUSE, 5A125V D UL
FB	101	87-003-317-010	F-BEAD, FOH2515-LG7
PT	101	88-NFU-661-010	PT, 8NF-U U
PT	101	88-NFU-665-010	PT, 8NF-U EZ
W	101	87-050-034-010	AC CORD ASSY, E
W	101	87-050-053-010	AC CORD ASSY, U-2
W	101	87-050-079-010	AC-CORD ASSY, E
		87-NB6-212-010	GUIDE, LED L IND
		87-NBG-202-010	GUIDE, FUN

MECHANICAL PARTS LIST - 2

		87-NF5-203-010	GUIDE, FL	A.....
		88-NF7-201-010	GUIDE, OPE	A.....
		88-NF7-202-010	GUIDE, PRO	A.....
W	104	85-NF5-628-010	F-CABLE 7P-2.5	A.....
WH	101	87-A90-460-010	HLDR, WIRE 2.5-7P	A.....
		87-067-703-010	TAPPING SCREW, BVT2+3-10	A.....
WH	102	87-A90-460-010	HLDR, WIRE 2.5-7P	A.....

TAPE MECHANISM PART LIST - 1

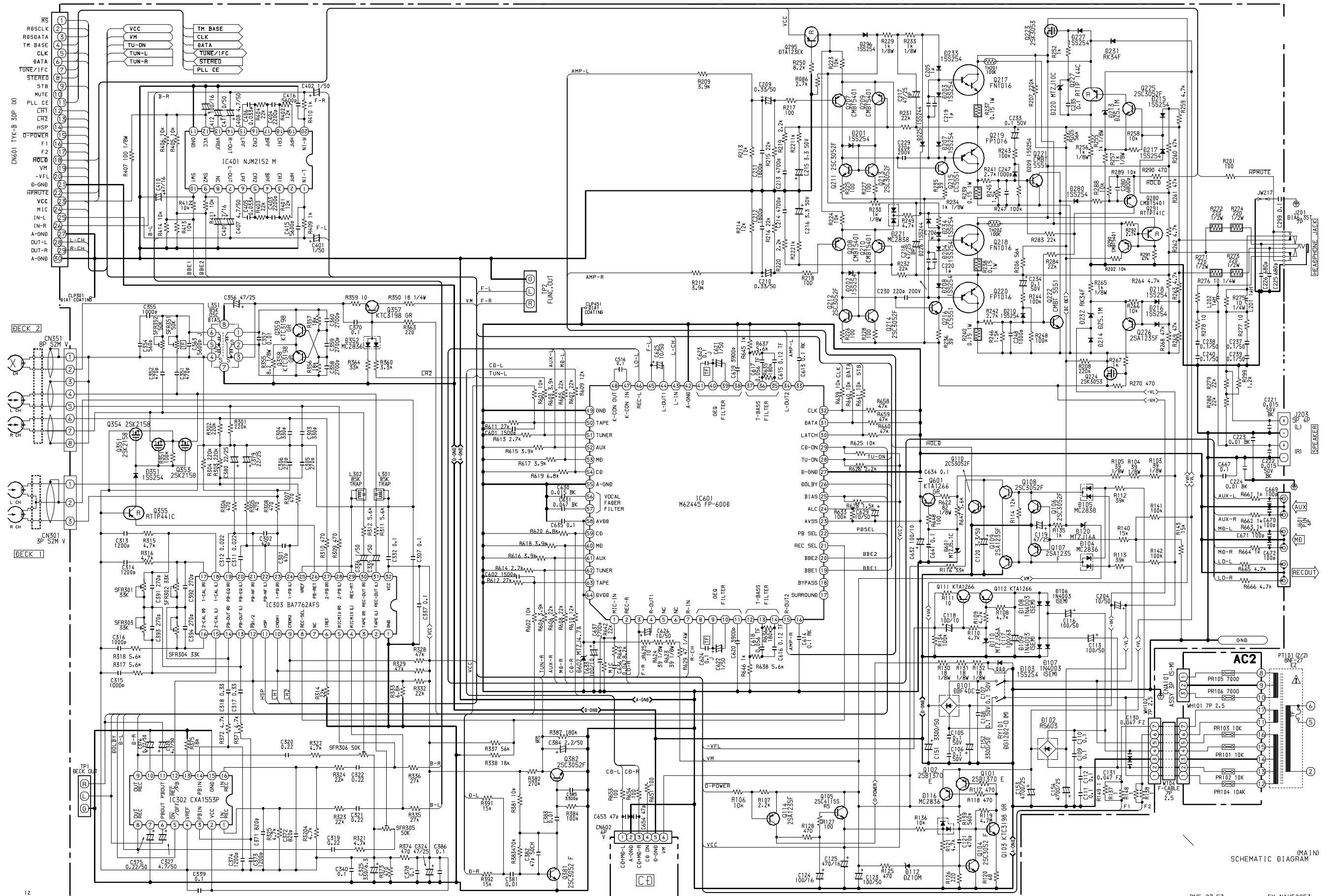
REF.NO.	PARTNO.	KANRI NO	DESCRIPTION	REF.NO.	PARTNO.	KANRI NO	DESCRIPTION
1	86-ZM3-215-010		CHAS ASSY,RS	41	82-ZM1-216-319		GEAR, REEL
2	86-ZM3-202-010		BASE, HEAD S	42	86-ZM3-213-010		S-SCREW, HLDR, MOT 3
3	86-ZM3-205-010		SPR-C, RPH S	43	82-ZM1-225-219		GEAR, FR
4	82-ZM1-333-210		PLATE, LINK 2	44	82-ZM1-226-019		GEAR, REW
5	86-ZM3-206-010		SPR-C, EH S	45	82-ZM3-333-310		SLIP DISK ASSY 2
6	87-A90-403-019		HEAD, RPH MS15R	46	82-ZM1-338-010		BELT FR4
7	86-ZM3-201-010		CHAS, HEAD S(DECK L)	47	82-ZM1-349-019		FLY-WHL RW (DECK L)
7	82-ZM3-206-910		CHAS, HEAD(DECK R)	47	82-ZM3-338-010		FLY-WHL R3W (DECK R)
8	87-045-347-019		MOT, SHU2L 70(M1)	48	82-ZM1-259-210		SPR-T, PINCH R
9	82-ZM1-269-219		SPR-T, BRG	49	82-ZM1-341-110		LVR ASSY, PINCH L2
10	82-ZM1-219-110		SPR-T, LINK	50	82-ZM1-258-210		SPR-T, PINCH L
11	86-ZM3-209-010		S-SCREW, ASIMUTHS	51	82-ZM1-314-110		PLATE, HEAD
12	86-ZM3-207-010		S-SCREW, RPH	52	82-ZM1-208-310		HLDR, HEAD
13	87-A90-404-019		HEAD, EH LE15B	53	87-A90-366-010		HEAD, PH YK50P-BF414
14	86-ZM3-208-010		S-SCREW, EH	54	82-ZM1-207-810		GUIDE TAPE
15	86-ZM3-203-010		HLDR, MOTS	55	82-ZM1-213-010		SPR-T, HEAD
16	82-ZM1-245-210		HLDR, IC	56	82-ZM1-210-110		GEAR, HT
17	82-ZM1-218-019		SPR-E, HB	57	86-ZM4-206-010		S-SCREW AZIMUTH L
18	86-ZM3-214-010		BELT, SUB RR	58	82-ZM1-348-010		FLY-WHL, LW
19	82-ZM1-222-219		LVR, PLAY	59	82-ZM1-236-019		CAPSTAN N 2-41.5
20	82-ZM1-217-419		REEL TABLE	60	82-ZM3-335-210		PULLEY, COUPLER M3
21	82-ZM1-244-519		SPR-C, BT	61	86-ZM1-206-010		BELT, MAIN L
22	82-ZM1-285-410		SPR-C, BT L	62	82-ZM1-266-110		LVR, DIR
23	82-ZM1-257-019		SPR-T, CAS	63	82-ZM1-214-010		SPR-T, DIR
24	82-ZM3-221-010		PULLEY, MOT 2M	64	82-ZM1-255-310		SPR-E, LVR DIR
25	82-ZM1-242-019		LVR, CAS	65	82-ZM3-339-010		SHAFT, COUPLER N3
26	82-ZM1-243-019		LVR, STOP	A	87-251-071-417		U+2.6-4
27	82-ZM1-344-119		LVR ASSY, PINCH	B	80-ZM6-243-019		SH, 1.75-3.6-0.5 SLT
28	86-ZM3-204-010		SPR-T, PINCHDS	C	82-ZM3-334-010		PW, 2.16-6-0.4
29	82-ZM1-240-119		LVR, REC (DECK 2)	D	80-ZM6-207-010		V+1.6-7
30	86-ZM3-210-010		BELT, RS	E	85-ZM3-202-010		S-SCREW TG
32	82-ZM3-305-119		GEAR, CAM M2	F	82-ZM1-288-010		SH, 1.63-3.2-0.5 SLT
33	82-ZM1-227-319		LVR, TRIG	G	87-B10-043-010		W-P, 0.99-4-0.25 SLT
34	82-ZM3-306-110		LVR, FR M2	H	87-571-032-410		VIT+2-3
35	82-ZM1-265-119		SPR-E, TRIG				
36	87-761-073-419		VFT2+2.6-6 W/O SLOT				
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7				
38	82-ZM1-322-019		SPR-T, FR60				
39	82-ZM1-220-219		GEAR, IDLER				
40	82-ZM3-616-019		RING MAGNET 4				

ACCESSORIES / PACKAGE LIST - 1

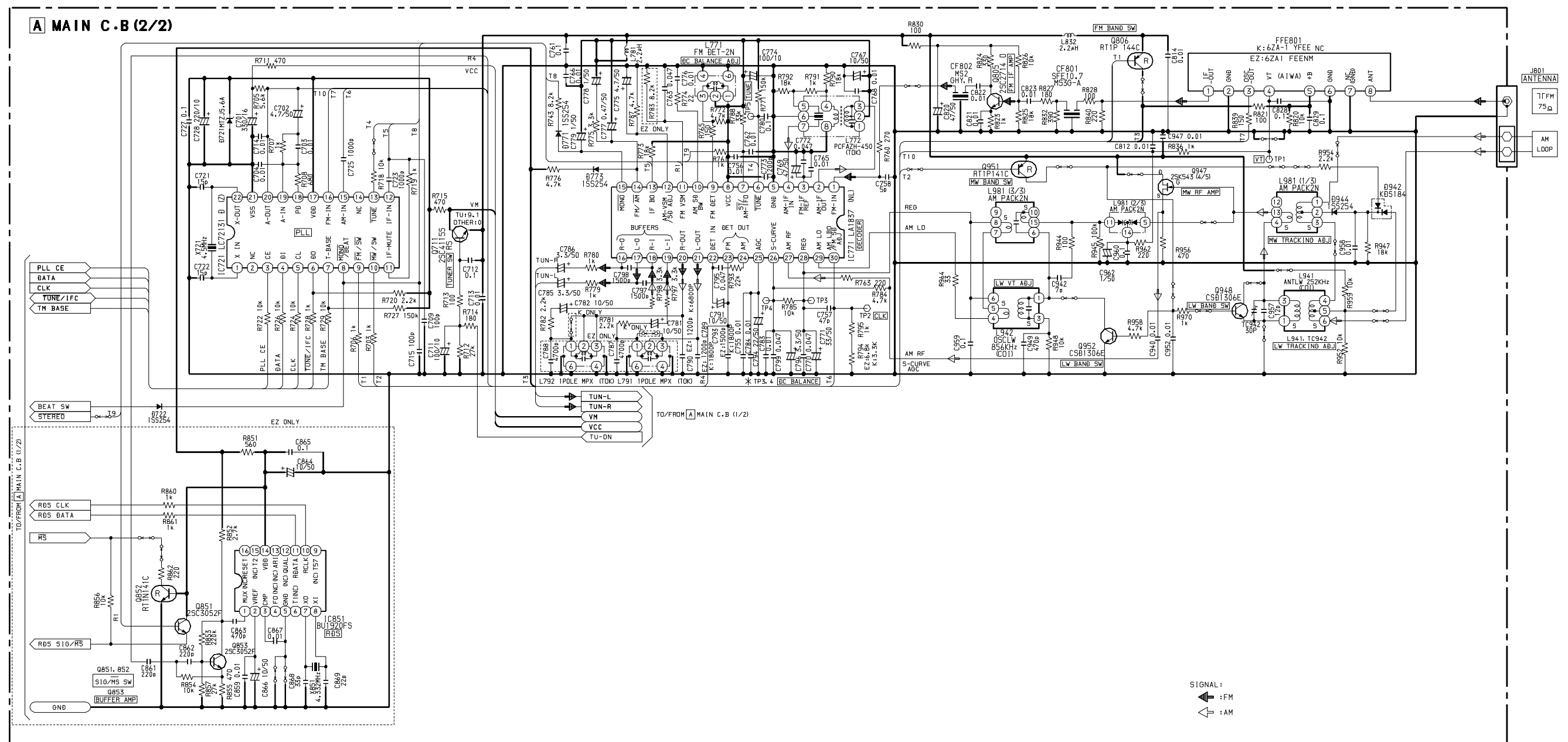
NOTE: The characters in the suffix column indicate the part usage.

AEZM	XX.....	A.....
REF.NO	PARTS NO.	KANRI NO.
		DESCRIPTION
		SUFFIX
	88-NFU-903-010	IB,U(ESF)M
	88-NFU-906-010	IB,E(9L)E
	88-NFU-913-010	IB,U(ESF)I
	87-006-225-010	AM, LOOP ANT NC2
	87-043-106-010	WIRE, FM ANT (Z)
	87-043-115-010	ANT, FEEDER FM
	87-NFR-610-010	RC UNIT, RC-7AS09

SCHEMATIC DIAGRAM – 1 (MAIN)

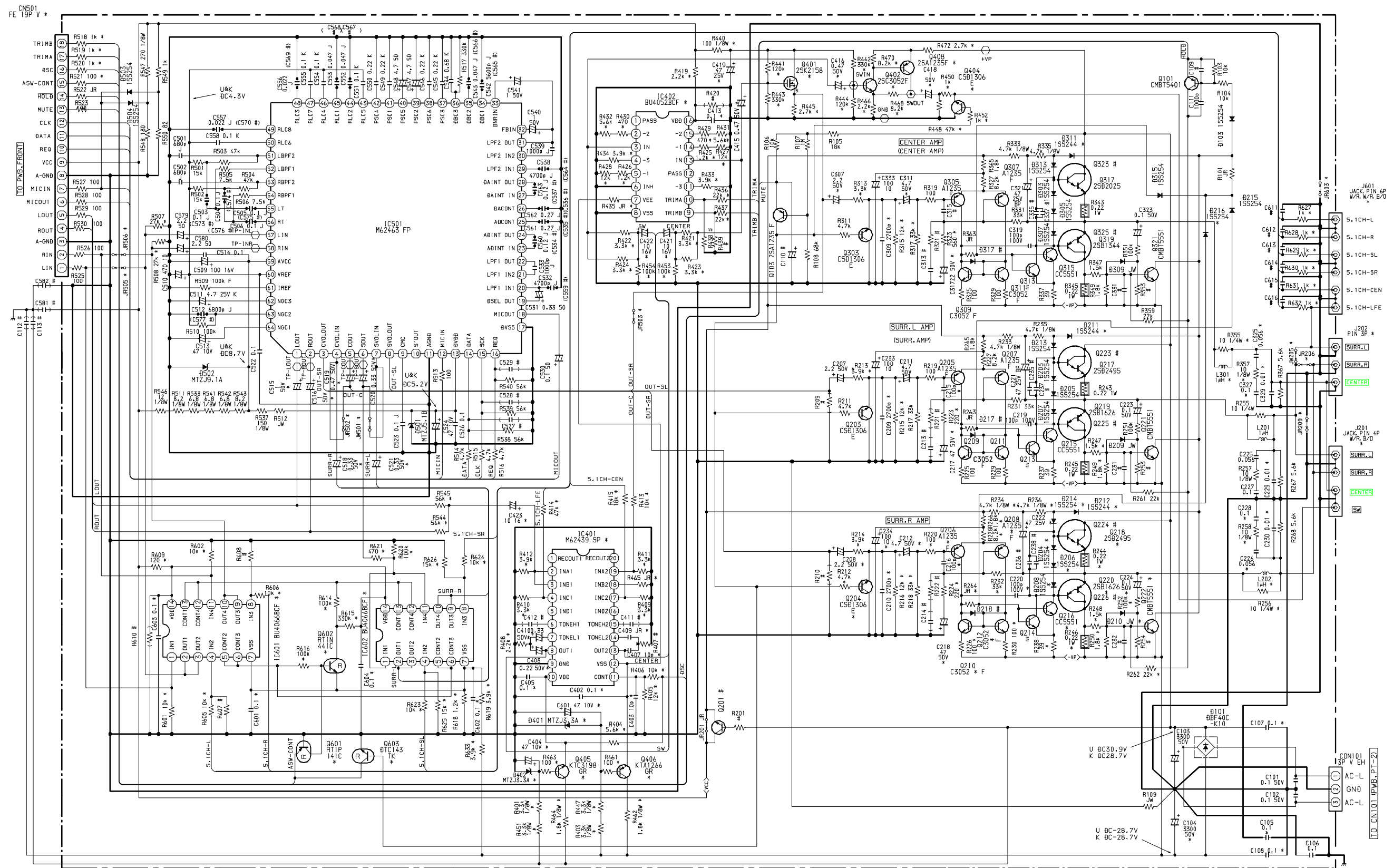


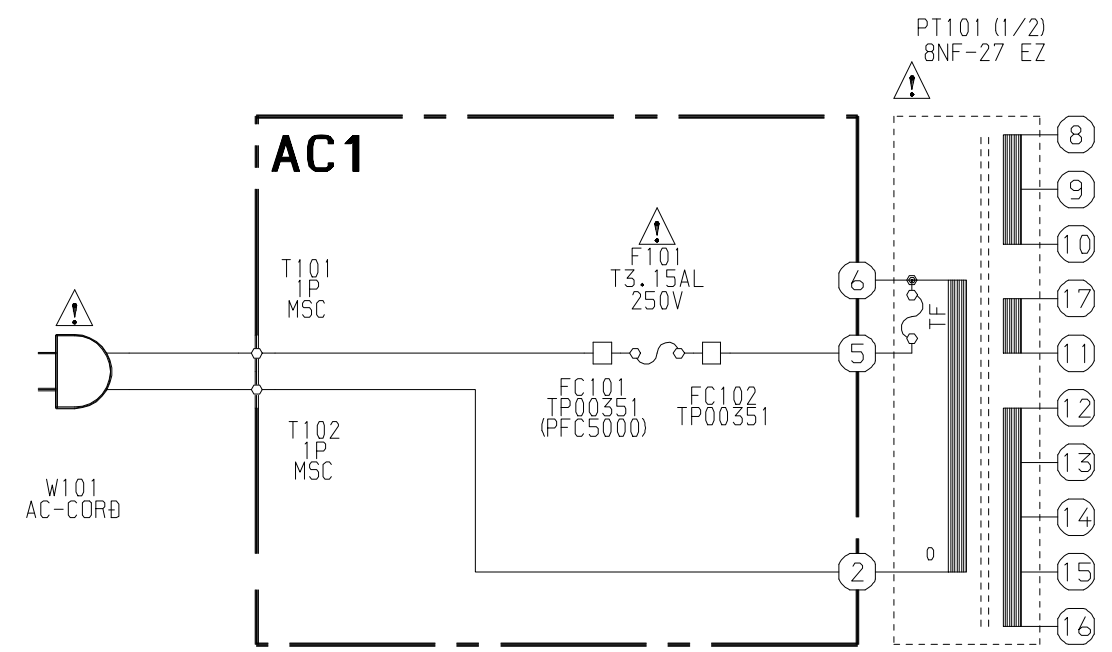
SCHEMATIC DIAGRAM – 2 (TUNER)



CX-NAV520EZ
30 APR 1998

SCHEMATIC DIAGRAM – 4 (PRO)





(PT1)
SCHEMATIC DIAGRAM

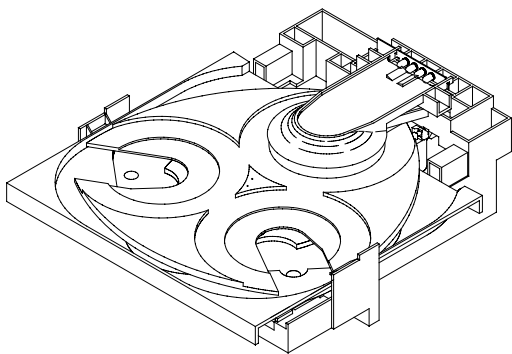
サービス技術ニュース	
番号	連絡内容
Gー	ー
Gー	ー
Gー	ー

アイワ株式会社
AIWA CO.,LTD.

9301978,750038

Tokyo Japan

4ZG-1



CD MECHANISM

• BASIC CD MECHANISM:3ZG-2 E1

• TYPE: English

BASIC NAME	DERIVATION NAME					
4ZG-1	V	O	S1	D	SH	

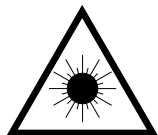
■ This Service Manual has various derivation.Derivation name is indicated by the Service Manual for each model.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainituulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

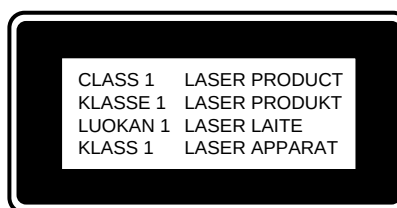
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

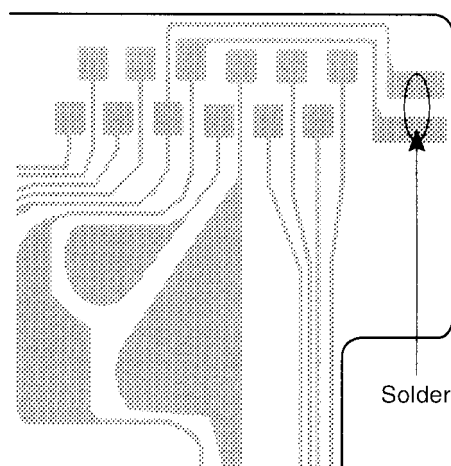


Precaution to replace Optical block (KSS-213F)

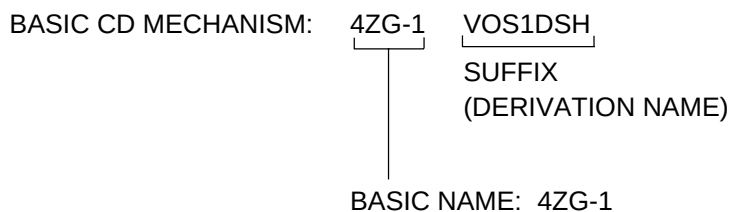
Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.

PICK-UP Assy P.C.B



This is the SERVICE MANUAL for the BASIC CD MECHANISM of BASIC NAME: 4ZG-1. This BASIC NAME includes the following models as shown under the SUFFIX name: DERIVATION NAME. Please use this manual with the separate SERVICE MANUAL for DERIVATION NAME.



BASIC NAME	DERIVATION NAME							
4ZG-1	V	O	S1	D	SH	—	—	—

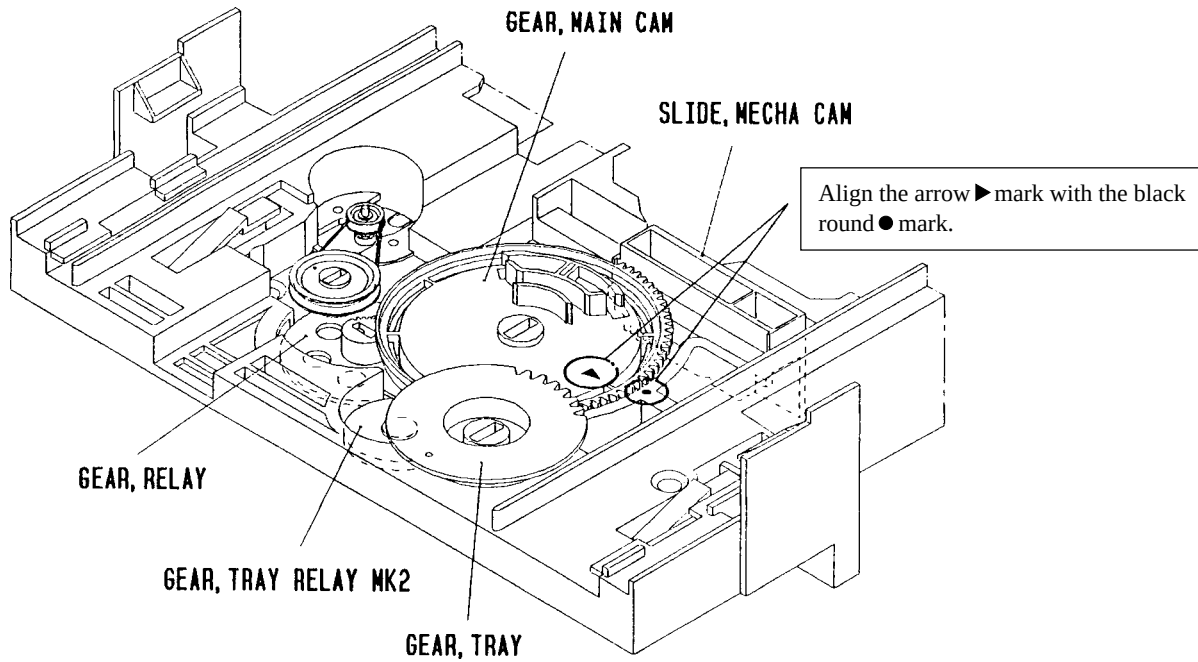
DERIVATION NAME

V: VIDEO OUT
O: On screen display
S1: THE 1st SONY IC MODEL
D: Digital output function
SH: Pick up equipped with shutter

How to Adjust the Rotating Phase of the Gear, Main Cam

- 1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
- 2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
- 3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

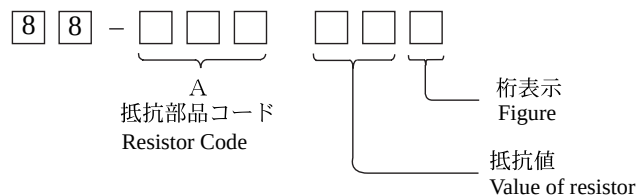
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C135	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A20-547-010	C-IC, CXA1992AR		C136	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A20-919-040	C-IC, BA5915FP		C137	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A20-917-010	C-IC, CXD2540Q-1/2		C138	87-010-182-080		C-CAP,S 2200P-50 B
	84-ZG1-697-010	C-IC, UPD78016FGC-549		C139	87-010-197-080		CAP, CHIP 0.01 DM
	87-017-825-010	IC, GP1F32T		C140	87-010-112-040		CAP,E 100-16
	87-017-760-080	IC, M51943BML		C141	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A20-602-040	C-IC, M5291FP		C142	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A20-925-040	C-IC, BA05FP		C143	87-010-213-080		C-CAP,S 0.015-50 B
	87-A20-905-040	C-IC, BA033FP		C151	87-010-263-040		CAP,E 100-10
	87-001-873-010	IC, LB1644		C152	87-010-197-080		CAP, CHIP 0.01 DM
	87-A20-920-010	C-IC, CL680-D1		C153	87-A10-893-040		CAP,E 220-10 M PW
	87-A20-921-040	C-IC, SN74LVU04APW		C154	87-010-197-080		CAP, CHIP 0.01 DM
	87-A20-656-040	C-IC, MB81V4260S-60/70PFTN		C155	87-010-184-080		CHIP CAPACITOR 3300P(K)
	84-ZG1-695-040	C-IC, LH5V2RN1		C156	87-010-992-080		C-CAP,S 0.047-25 B
	87-A20-975-040	C-IC, SN74LV74APW		C157	87-010-992-080		C-CAP,S 0.047-25 B
	87-A20-974-040	C-IC, LC74781M-9017		C158	87-012-156-080		C-CAP,S 220P-50 CH
	87-A20-918-040	C-IC, SM5878AM		C159	87-016-526-080		C-CAP,S 0.47-16 BK
				C160	87-010-314-080		C-CAP,S 22P-50V
				C161	87-010-182-080		C-CAP,S 2200P-50 B
TRANSISTOR				C162	87-010-178-080		CHIP CAP 1000P
	87-026-463-080	TR, 2SA933S (0.3W)		C201	87-016-669-080		C-CAP,S 0.1-25 K B
	87-026-237-080	CHIP-TR, DTC124XK		C204	87-010-197-080		CAP, CHIP 0.01 DM
	89-327-125-080	CHIP TR, 2SC2712GR		C205	87-010-379-040		CAP,E 22-16 M SME
	87-026-231-080	CHIP-TRANSISTER, DTA124XK		C206	87-010-322-080		C-CAP,S 100P-50 CH
	87-A30-117-010	TR, 2SA1357		C207	87-010-322-080		C-CAP,S 100P-50 CH
	89-111-625-080	TR, 2SA1162 (0.15W)		C208	87-010-322-080		C-CAP,S 100P-50 CH
	87-026-580-080	C-TR, DTA123JK		C209	87-010-322-080		C-CAP,S 100P-50 CH
	87-026-470-080	TR, HN1C03F (0.3W)		C210	87-016-669-080		C-CAP,S 0.1-25 K B
				C211	87-010-263-040		CAP,E 100-10
DIODE				C213	87-010-190-080		S CHIP F 0.01
	87-020-027-080	CHIP-DIODE 1SS184		C214	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-017-024-040	C-DIODE, DA204K		C301	87-016-251-040		CAP,E 220-16 SMG
	87-A40-180-040	C-DIODE, SB07-015C		C302	87-012-140-080		CAP 470P
	87-A40-384-080	C-ZENER, UDZ3.3B		C303	87-010-178-080		CHIP CAP 1000P
				C304	87-010-384-040		CAP,E 100-25 SME
				C305	87-010-982-040		CAP,E 33-25 GAS
				C306	87-010-112-040		CAP,E 100-16
				C307	87-010-196-080		CHIP CAPACITOR,0.1-25
				C308	87-010-263-040		CAP,E 100-10
3CD C.B				C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C101	87-010-182-080	C-CAP,S 2200P-50 B		C310	87-010-263-040		CAP,E 100-10
C102	87-016-669-080	C-CAP,S 0.1-25 K B		C311	87-010-196-080		CHIP CAPACITOR,0.1-25
C103	87-016-669-080	C-CAP,S 0.1-25 K B		C312	87-010-178-080		CHIP CAP 1000P
C104	87-016-669-080	C-CAP,S 0.1-25 K B		C320	87-010-196-080		CHIP CAPACITOR,0.1-25
C105	87-010-404-040	CAP,E 4.7-50 SME		C401	87-016-044-040		CAP,E 100-16 GAS
C106	87-016-369-080	C-CAP,S 0.033-25 B K		C402	87-010-190-080		S CHIP F 0.01
C107	87-010-197-080	CAP, CHIP 0.01 DM		C403	87-010-190-080		S CHIP F 0.01
C108	87-010-401-040	CAP,E 1-50 SME		C501	87-010-197-080		CAP, CHIP 0.01 DM
C109	87-010-382-040	CAP,E 22-25 SME		C502	87-010-197-080		CAP, CHIP 0.01 DM
C110	87-010-213-080	C-CAP,S 0.015-50 B		C503	87-010-197-080		CAP, CHIP 0.01 DM
C111	87-010-263-040	CAP,E 100-10		C504	87-010-154-080		CAP CHIP 10P
C112	87-010-197-080	CAP, CHIP 0.01 DM		C505	87-010-154-080		CAP CHIP 10P
C113	87-016-369-080	C-CAP,S 0.033-25 B K		C506	87-010-197-080		CAP, CHIP 0.01 DM
C114	87-016-369-080	C-CAP,S 0.033-25 B K		C508	87-010-263-040		CAP,E 100-10
C115	87-016-369-080	C-CAP,S 0.033-25 B K		C509	87-016-669-080		C-CAP,S 0.1-25 K B
C116	87-012-158-080	C-CAP,S 390P-50 CH		C510	87-010-263-040		CAP,E 100-10
C117	87-012-154-080	C-CAP,S 150P-50 CH		C511	87-016-669-080		C-CAP,S 0.1-25 K B
C118	87-010-494-040	CAP,E 1-50 GAS		C512	87-010-197-080		CAP, CHIP 0.01 DM
C119	87-010-152-080	C-CAP,S 8P-50 CH		C513	87-010-197-080		CAP, CHIP 0.01 DM
C120	87-010-992-080	C-CAP,S 0.047-25 B		C514	87-010-197-080		CAP, CHIP 0.01 DM
C121	87-010-992-080	C-CAP,S 0.047-25 B		C518	87-010-322-080		C-CAP,S 100P-50 CH
C123	87-016-669-080	C-CAP,S 0.1-25 K B		C519	87-012-145-080		CAP, CHIP S 270P CH
C125	87-010-198-080	CAP, CHIP 0.022		C520	87-012-157-080		C-CAP,S 330P-50 CH
C126	87-016-669-080	C-CAP,S 0.1-25 K B		C521	87-012-154-080		C-CAP,S 150P-50 CH
C127	87-010-555-040	CAP,E 100-10 GAS		C522	87-010-371-080		CAP, ELECT 470-6.3V
C130	87-010-555-040	CAP,E 100-10 GAS		C523	87-010-197-080		CAP, CHIP 0.01 DM
C131	87-010-555-040	CAP,E 100-10 GAS		C524	87-010-197-080		CAP, CHIP 0.01 DM
C132	87-010-178-080	CHIP CAP 1000P		C525	87-010-197-080		CAP, CHIP 0.01 DM
C133	87-010-555-040	CAP,E 100-10 GAS		C526	87-010-197-080		CAP, CHIP 0.01 DM
C134	87-010-196-080	CHIP CAPACITOR,0.1-25					

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C527	87-010-197-080	CAP, CHIP 0.01 DM		L506	87-005-204-080	COIL, 47UH	
C528	87-010-197-080	CAP, CHIP 0.01 DM		L507	87-005-204-080	COIL, 47UH	
C529	87-010-197-080	CAP, CHIP 0.01 DM		L508	87-005-817-080	C-COIL, 33UH J FLC32	
C530	87-010-197-080	CAP, CHIP 0.01 DM		M401	87-045-305-010	MOTOR, RF-500TB DC-5V (2MA)	
C531	87-010-197-080	CAP, CHIP 0.01 DM		R130	87-022-364-080	C-RES, S 82K-1/10W F	
C532	87-010-374-040	CAP, E 47-10		R131	87-022-364-080	C-RES, S 82K-1/10W F	
C533	87-010-197-080	CAP, CHIP 0.01 DM		R132	87-022-364-080	C-RES, S 82K-1/10W F	
C534	87-010-555-040	CAP, E 100-10 GAS		R133	87-022-364-080	C-RES, S 82K-1/10W F	
C535	87-010-197-080	CAP, CHIP 0.01 DM		R134	87-022-364-080	C-RES, S 82K-1/10W F	
C536	87-010-078-040	CAP, E 47-6.3 5L		R135	87-022-364-080	C-RES, S 82K-1/10W F	
C537	87-010-197-080	CAP, CHIP 0.01 DM		R507	87-A00-408-080	C-RES, S 2K-1/10W D	
C538	87-010-196-080	CHIP CAPACITOR, 0.1-25		S201	87-A90-162-010	SW, SL 1-1-3 SSSU	
C539	87-016-669-080	C-CAP, S 0.1-25 K B		S401	87-036-109-010	PUSH SWITCH	
C540	87-010-078-040	CAP, E 47-6.3 5L		S402	87-036-109-010	PUSH SWITCH	
C541	87-010-197-080	CAP, CHIP 0.01 DM		W1	84-ZG1-673-010	F-CABLE, 5P 1.25 210MM BLACK N	
C542	87-010-318-080	C-CAP, S 47P-50 CH		W2	85-NFT-611-110	FF-CABLE 16P-1.0	
C544	87-010-197-080	CAP, CHIP 0.01 DM		W3	84-ZG1-630-010	CABLE FFC 6P-1.25	
C546	87-010-197-080	CAP, CHIP 0.01 DM		X201	87-A70-124-080	VIB, CER 8.0MHZ	
C549	87-010-494-040	CAP, E 1-50 GAS		X501	87-A70-125-080	VIB, XTAL 27MHZ 50PPM	
C550	87-010-196-080	CHIP CAPACITOR, 0.1-25		X601	87-030-270-080	VIB, XTAL 16.9344MHZ	
C551	87-012-153-080	C-CAP, S 120P-50 CH					
C552	87-016-526-080	C-CAP, S 0.47-16 BK		LED C.B			
C554	87-010-197-080	CAP, CHIP 0.01 DM		LED401	87-070-200-080	LED, SLP636C-81-S-T1	
C556	87-010-378-040	CAP, E 10-16		LED402	87-017-350-080	LED, SEL1550CM	
C557	87-010-316-080	C-CAP, S 33P-50 CH		LED403	87-017-350-080	LED, SEL1550CM	
C558	87-010-315-080	C-CAP, S 27P-50 CH		LED404	87-070-200-080	LED, SLP636C-81-S-T1	
C560	87-010-197-080	CAP, CHIP 0.01 DM					
C601	87-010-197-080	CAP, CHIP 0.01 DM		T-T C.B			
C602	87-010-197-080	CAP, CHIP 0.01 DM		C401	87-018-214-080	CAP TC U 0.1-50F	
C603	87-010-112-040	CAP, E 100-16		CON401	86-NFZ-675-010	CONN, 5P H 6216-11H	
C604	87-010-196-080	CHIP CAPACITOR, 0.1-25		PS401	87-026-573-010	IC, GP1S53V	
C605	87-010-197-080	CAP, CHIP 0.01 DM					
C606	87-010-197-080	CAP, CHIP 0.01 DM		DRIVE C.B			
C607	87-010-313-080	CAP, CHIP 18P		CN3	87-009-349-010	CONN, 6P H WHT PH	
C608	87-010-313-080	CAP, CHIP 18P		M20	87-045-358-010	MOT, RF-310TA 43	
C609	87-010-178-080	CHIP CAP 1000P		M21	87-045-356-010	MOT, RF-310TA 30	
C610	87-010-178-080	CHIP CAP 1000P		SW1	87-A90-042-010	SW, LEAF MSW-17310MVPO	
C611	87-010-178-080	CHIP CAP 1000P					
C612	87-010-178-080	CHIP CAP 1000P		CD MOTOR C.B			
C613	87-010-403-040	CAP, E 3.3-50 SME		CN4	87-099-210-010	CONN, 5P H BLK 6216	
C614	87-010-403-040	CAP, E 3.3-50 SME		M1	87-045-305-010	MOT, RF-500TB	
C615	87-010-318-080	C-CAP, S 47P-50 CH		SW1	87-035-110-010	SW, MICRO SPPB62	
C616	87-010-318-080	C-CAP, S 47P-50 CH		SW2	87-035-110-010	SW, MICRO SPPB62	
CN101	87-A60-424-010	CONN, 16P V TOC-B					
CN102	87-099-199-010	CONN, 6P 6216 H					
CN401	87-099-212-010	CONN, 5P 6216 V					
CN403	87-099-030-010	CONN, 13P 6216H					
J501	87-009-502-010	JACK, PIN 1P Y EARTH					
L101	87-005-196-080	COIL, 10UH					
L301	87-A50-095-010	COIL, 68UH RCR875D					
L302	87-005-426-080	COIL, 3.3UH K FLR50					
L502	87-005-204-080	COIL, 47UH					
L503	87-005-189-080	COIL 2.7UH					
L504	87-005-187-080	COIL, 1.8UH					
L505	87-005-204-080	COIL, 47UH					

- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

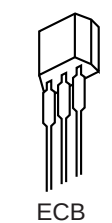
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



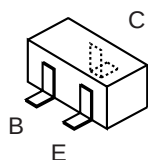
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法 / Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形 / Form	L	W	t	
1/16W	1608	5%	CJ		1.6	0.8	0.45	108
1/10W	2125	5%	CJ		2	1.25	0.45	118
1/8W	3216	5%	CJ		3.2	1.6	0.55	128

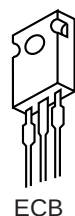
TRANSISTOR ILLUSTRATION



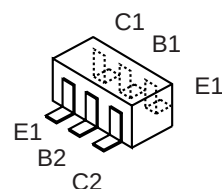
2SA933S



2SA1162
2SC2712
DTA123JK
DTA124XK
DTC124XK

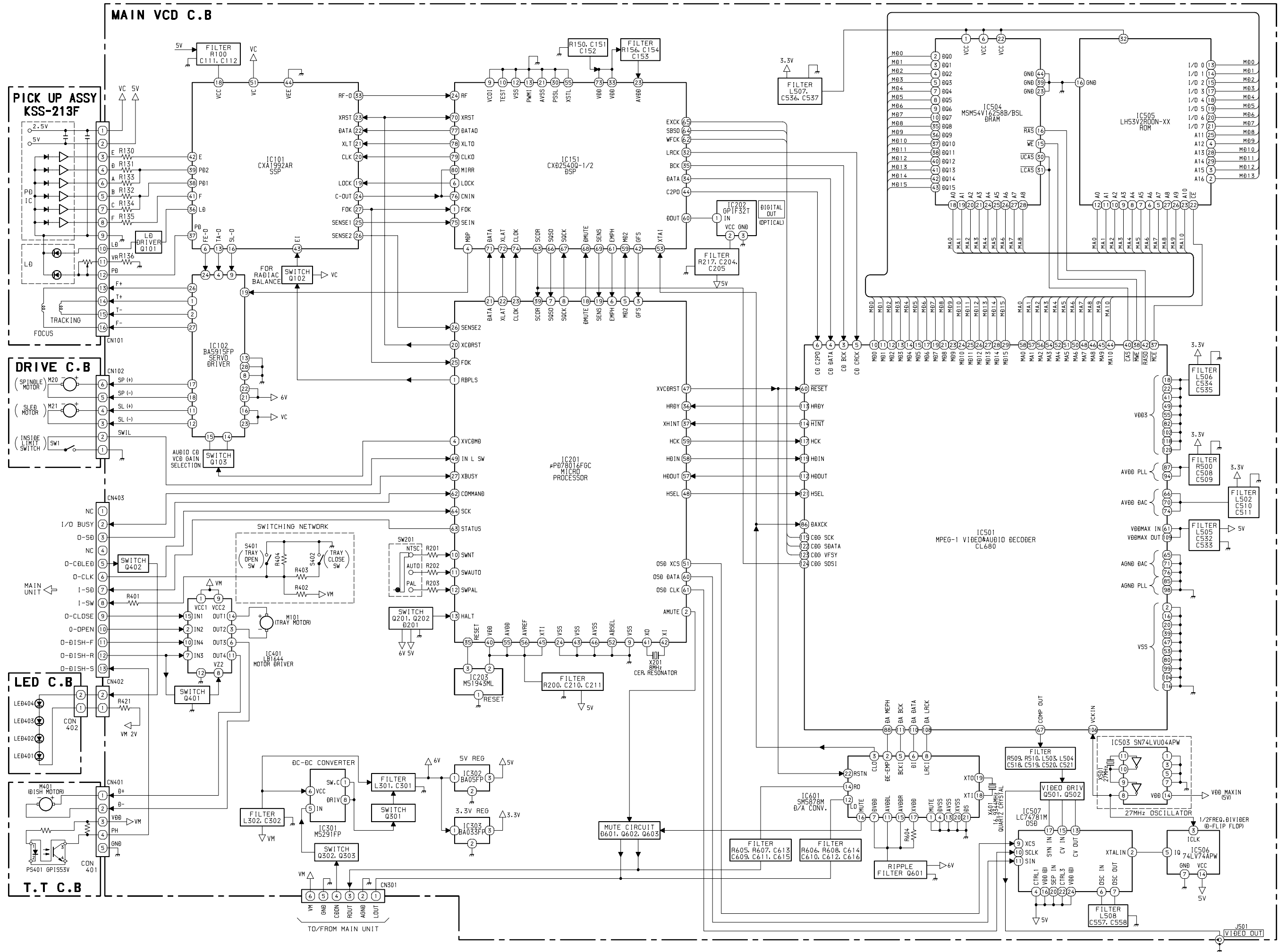


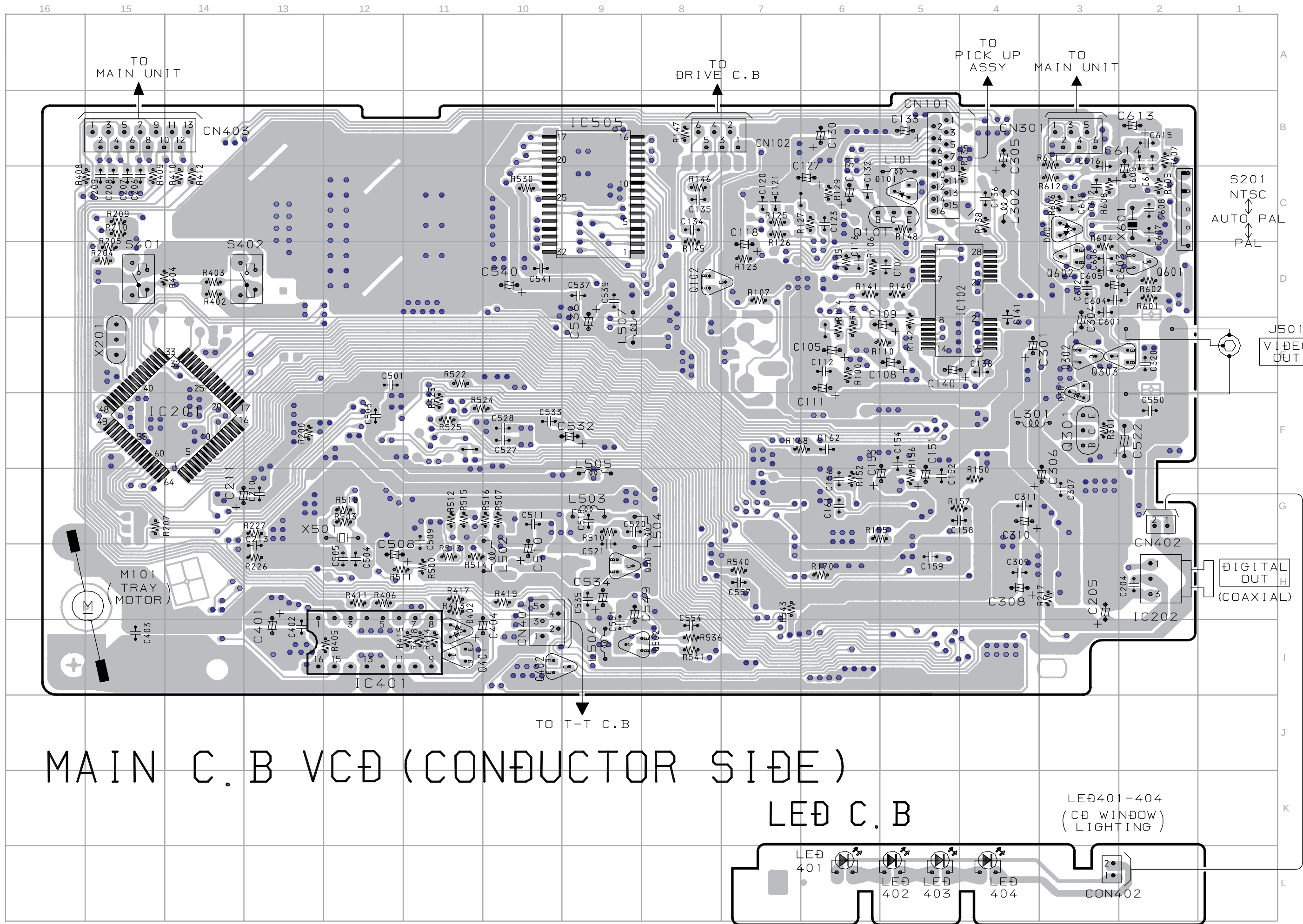
2SA1357

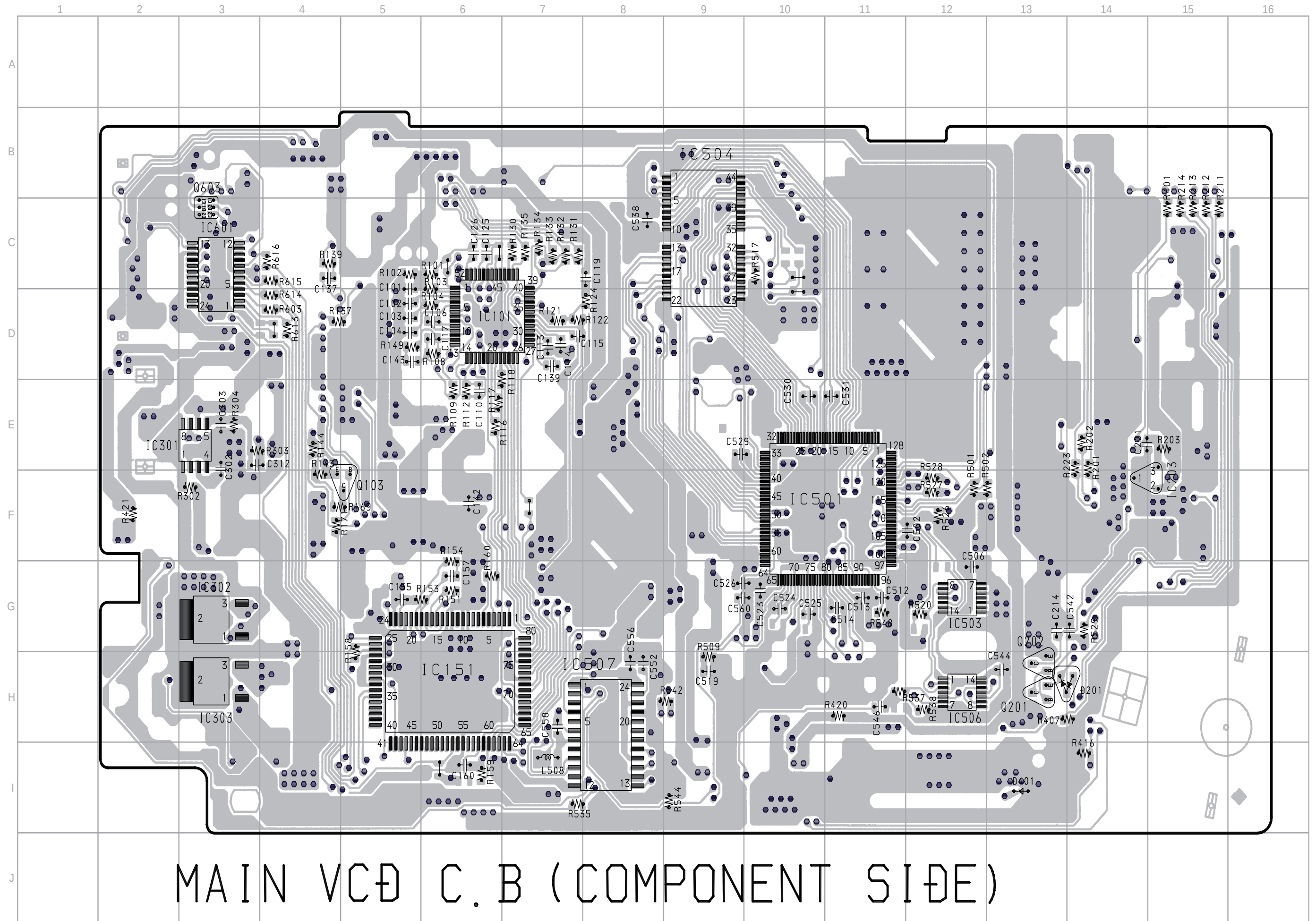


HN1C03F

BLOCK DIAGRAM

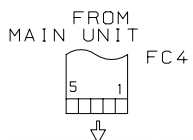






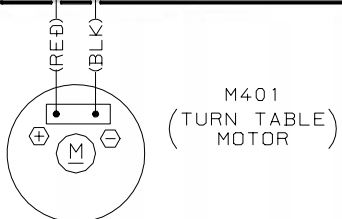
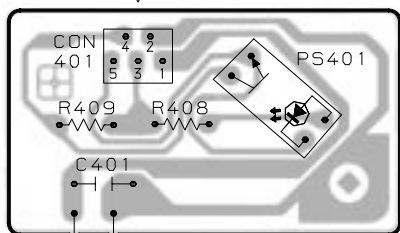
1 2 3 4 5 6 7

A



T-T C.B

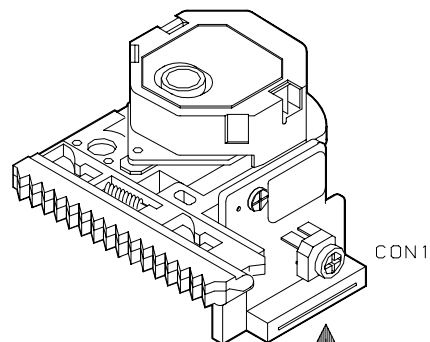
B



C

D

PICK UP ASSY



MAIN VCØ C.B.
CN101

E

DRIVE C.B

F

M20
(SPINDLE
MOTOR)

SW1
(INSIDE LIMIT
SW)

G

M21
(SLED
MOTOR)

H

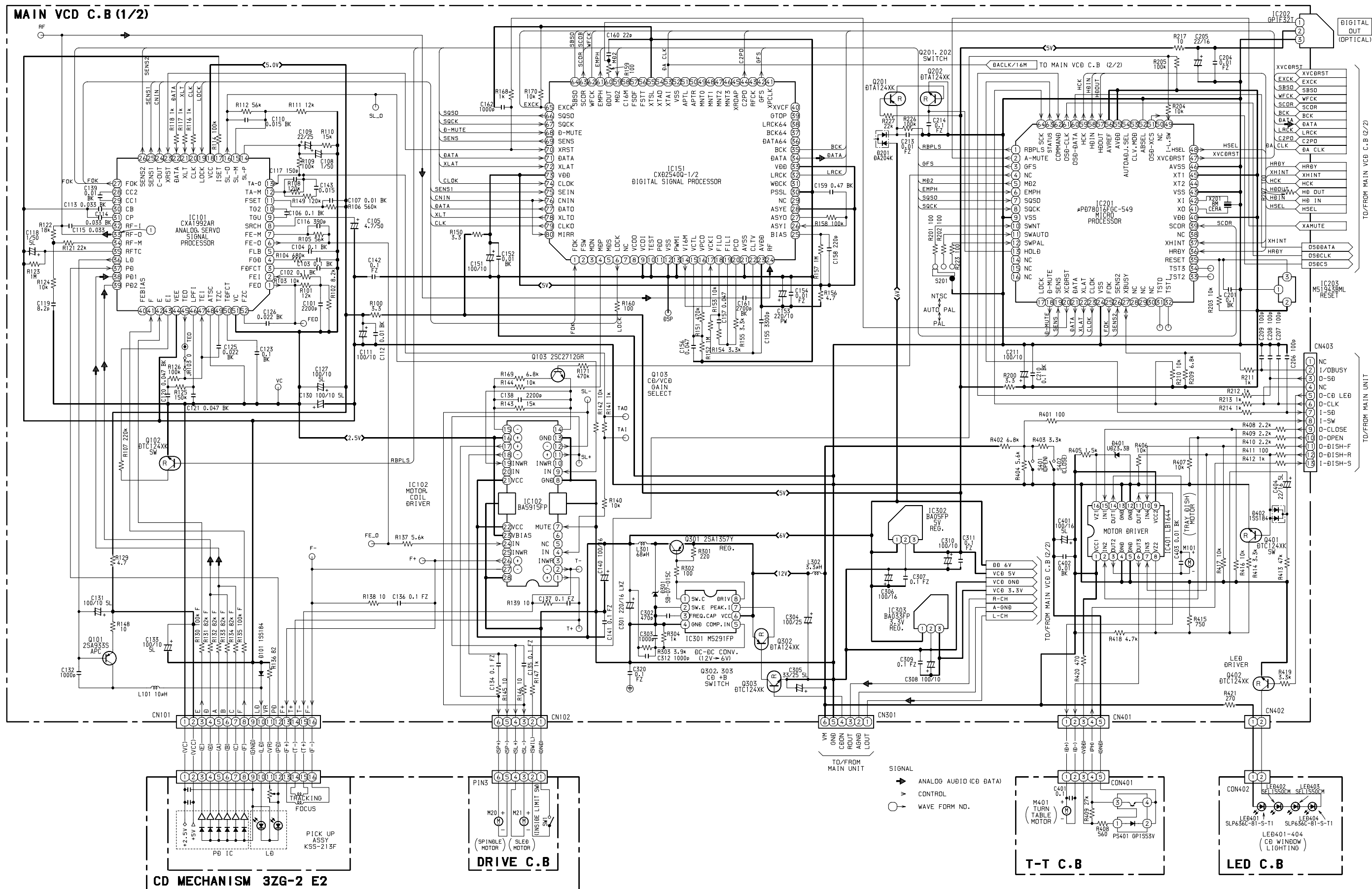
PIN3
2 1
4 3
6 5

MAIN VCØ C.B.
CN102

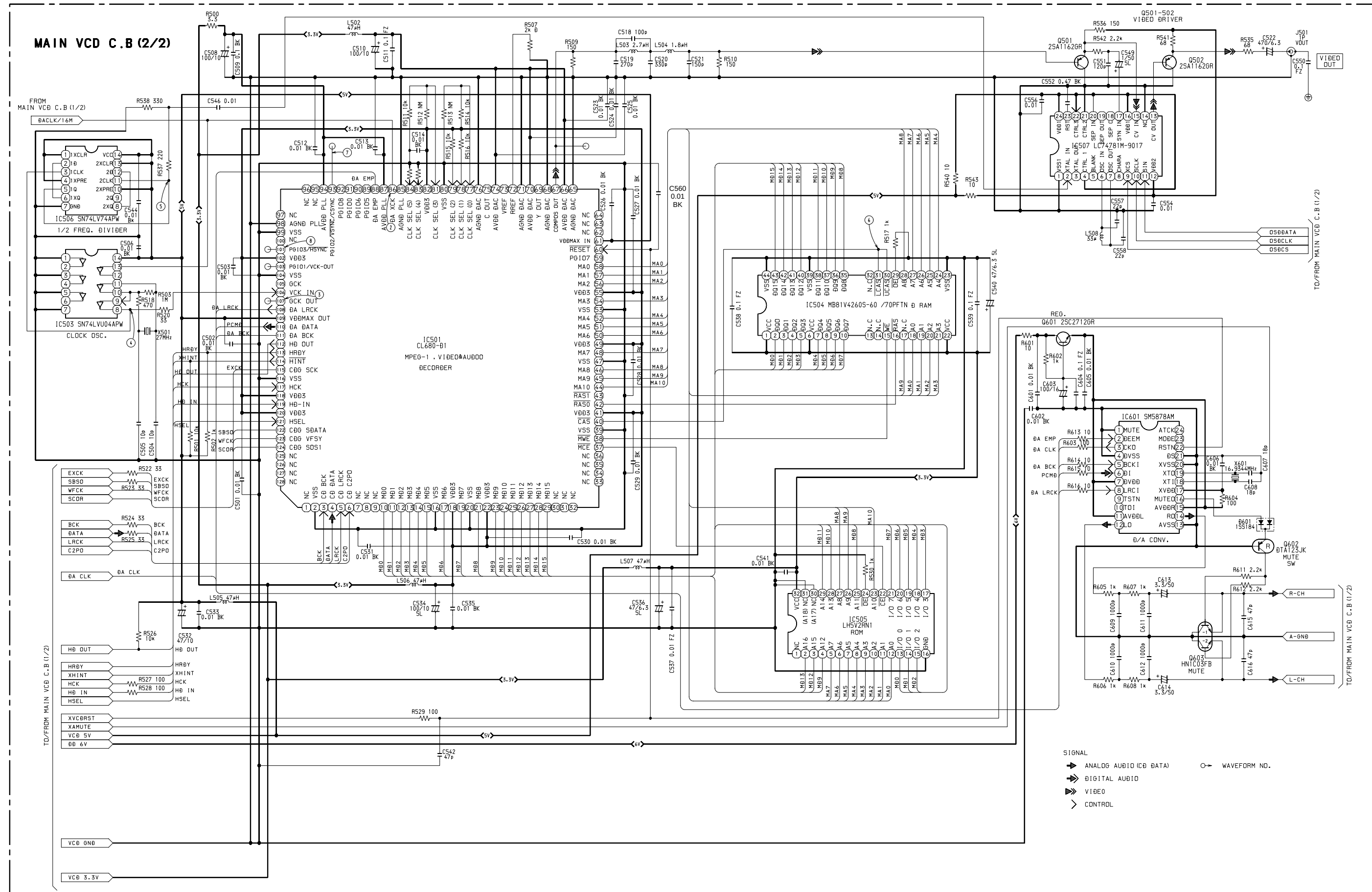
I

J

SCHEMATIC DIAGRAM-1

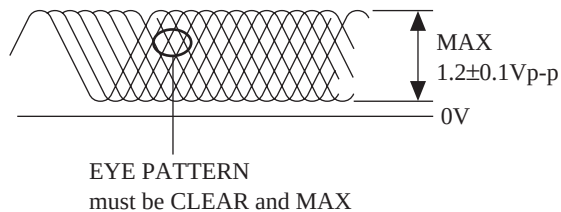


SCHEMATIC DIAGRAM-2

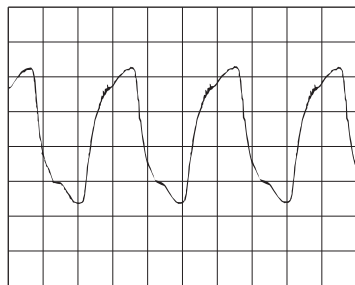


WAVE FORM

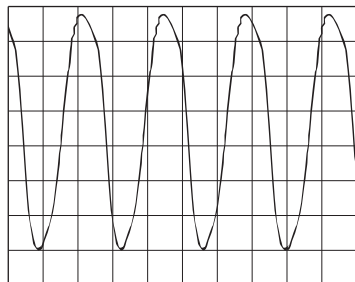
- ① IC101 Pin ③③ (RF-O) VOLT/DIV: 200mV
TIME/DIV: 0.5μS



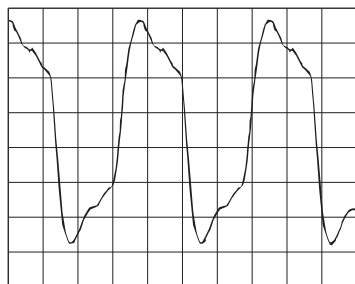
- ② IC501 Pin ⑧⑥ DA XCK 16.93MHz VOLT/DIV: 1V
TIME/DIV: 20nS



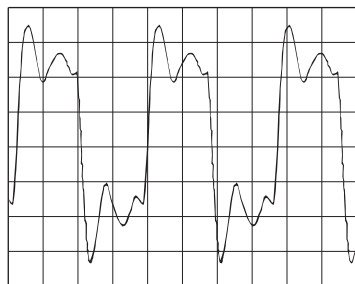
- ③ IC501 Pin ⑩⑦ GCK OUT 42.3MHz VOLT/DIV: 1V
TIME/DIV: 10nS



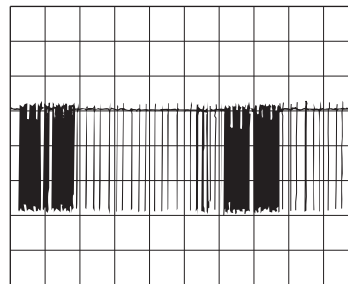
- ④ IC503 Pin ⑧ 33 VCK 27MHz±1.35kHz VOLT/DIV: 1V
TIME/DIV: 10nS



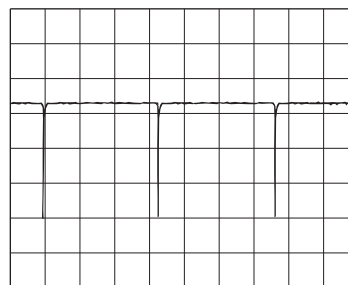
- ⑤ IC506 Pin ⑪ OSD CLK 13.5MHz±675Hz VOLT/DIV: 1V
TIME/DIV: 20nS



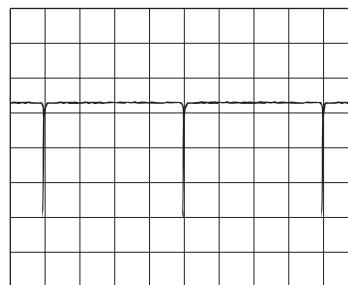
- ⑥ IC504 Pin ③① UCAS (Pin ③① LCAS) VOLT/DIV: 1V
TIME/DIV: 2μS



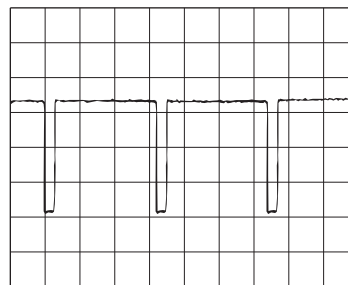
- ⑦ IC501 Pin ⑨③ VSync NTSC VOLT/DIV: 1V
TIME/DIV: 5mS



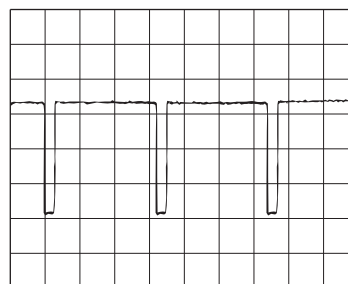
- ⑧ IC501 Pin ⑨③ VSync PAL VOLT/DIV: 1V
TIME/DIV: 5mS



- ⑧ IC501 Pin ⑩① HSync PAL VOLT/DIV: 1V
TIME/DIV: 20μS



- IC501 Pin ⑩① HSync NTSC VOLT/DIV: 1V
TIME/DIV: 20μS



IC DESCRIPTION

IC, CXA1992AR

Pin No.	Pin Name	I/O	Description
1	FEO	O	Output terminal for focus error amplifier. Internally connected to window comparator input for bias condition.
2	FEI	I	Input terminal for focus error.
3	FDFCT	I	Capacitor connection terminal for time constant used when there is defect.
4	FGD	I	This pin is connected to GND via capacitor when high frequency gain of the focus servo is attenuated.
5	FLB	I	This is a pin where the time constant is externally connected to raise the low frequency gain of the focus servo.
6	FE_O	O	Focus drive output.
7	FEM	I	Focus amplifier inverted input pin.
8	SRCH	I	This is a pin where the time constant is externally connected to generate the focus search waveform.
9	TGU	I	This is a pin where the selection time constant is externally connected to set the tracking servo the high frequency gain.
10	TG2	I	This is a pin where the selection time constant is externally connected to set the tracking high frequency gain.
11	FSET	I	Pin for setting peak of the phase compensator of the focus tracking.
12	TA_M	I	Tracking amplifier inverted input pin.
13	TA_O	O	Tracking drive output.
14	SL_P	I	Sled amplifier non-inverted input pin.
15	SL_M	I	Sled amplifier inverted input pin.
16	SL_O	O	Sled drive output.
17	ISSET	I	The current which determines height of the focus search, track jump and sled kick is input with external resistance connected.
18	Vcc	I	Power supply.
19	LOCK	I	“L” setting starts sled disorder-prevention circuit. (Not pull-up resistance)
20	CLK	I	Clock input for serial data transfer from CPU. (No pull-up resistance)
21	XLT	I	Latch input from CPU. (No pull-up resistance)
22	DATA	I	Serial data input from CPU. (No pull-up resistance)
23	XRST	I	Reset system at “L” setting. (No pull-up resistance)
24	C_OUT	O	Signal output for track number counting.
25	SENS1	O	FZC, DFCT1, TZC, BALH, TGH, FOH, or ATSC is output depending on the command from CPU.
26	SENS2	O	DFCT2, MIRR, BALL, TGL or FOL is output depending on the command from CPU.
27	FOK	O	Output terminal for focus OK comparator.
28	CC2	I	Input pin where the DEFECT bottom hold output is capacitance coupled.
29	CC1	O	DEFECT bottom-hold output terminal. Internally connected to interruption comparator input.
30	CB	I	Connection terminal for DEFECT bottom-hold capacitor.
31	CP	I	Connection terminal for MIRR hold-capacitor. Anti-reverse input terminal for MIRR comparator.

Pin No.	Pin Name	I/O	Description
32	RF_I	I	Input terminal by capacity combination of RF summing amplifier.
33	RF_O	O	Output terminal of RF summing amplifier. Checkpoint of Eye pattern.
34	RF_M	I	Anti-reverse input terminal for RF summing amplifier. The gain of RF amplifier is decided by the connection resistance between RF_M and RFO terminals.
35	RFTC	I	This is a pin where the selection time constant is externally connected to control the RF level.
36	LD	O	APC amplifier output terminal.
37	PD	I	APC amplifier input terminal.
38, 39	PD1, PD2	I	RFI-V amplifier inverted input pin. These pins are connected to the A+C and B+C pins of the optical pickup, receiving by currents input.
40	FEBIAS	I/O	Bias adjustment pin of the focus error amplifier.
41, 42	F, E	I	F and EIV amplifier inverted input pins. These pins are connected to the F and E of the optical pickup, receiving by current input.
43	EI	—	Gain adjustment pin of the I-V amplifier E. (When not in use of BAL automatic adjustment)
44	VEE	—	GND connection pin.
45	TEO	O	Output terminal for tacking-error amplifier. Output E-F signal.
46	LPFI	I	BAL adjustment comparator input pin. (Input through LPF from TEO)
47	TEI	I	Input terminal for tracking error.
48	ATSC	I	Window-comparator input terminal for detecting ATSC.
49	TZC	I	Input terminal for tracking-zero cross comparator.
50	TDFCT	I	Capacitor connection pin for the time constant used when there is defect.
51	VC	O	Output terminal for DC voltage reduced to half of VCC+VEE.
52	FZC	I	Input terminal for focus-zero cross comparator.

IC, CXD2540Q

Pin No.	Pin Name	I/O	Description
1	FOK	I	Focus OK input. Used for SENS output and the servo auto sequencer.
2	FSW	O	Spindle motor output filter switching output.
3	MON	O	Spindle motor on/off control output.
4	MDP	O	Spindle motor servo control.
5	MDS	O	
6	LOCK	O	High, when sampled value of GFS at 460Hz is high. Low, when sampled value of GFS at 460Hz is low by 8 times successively.
7	NC		
8	VCOO	O	Analog EFM PLL oscillation circuit output.
9	VCOI	I	Analog EFM PLL oscillation circuit input. f _{LOCK} =8.6436MHz.
10	TEST	I	TEST pin.
11	PDO	O	Analog EFM PLL charge pump output.
12	VSS		GND.
13	PWMI	I	Spindle motor external control input.
14	V16M	O	VCO2 oscillation output for the wide-band EFM PLL.
15	VCTL	I	VCO2 control voltage input for the wide-band EFM PLL.
16	VPCO	O	Wide-band EFM PLL charge pump output.
17	VCKI	I	VCO2 oscillation input for the wide-band EFM PLL.
18	FILO	O	Multiplier PLL (slave=digital PLL) filter output.
19	FILI	I	Multiplier PLL filter input.
20	PCO	O	Multiplier PLL charge pump output.
21	AVSS		Analog GND.
22	CLTV	I	Multiplier VCO1 control voltage input.
23	AVDD		Analog power supply (5V).
24	RF	I	EFM signal input.
25	BIAS	I	Constant current input of the asymmetry circuit.
26	ASYI	I	Asymmetry comparator voltage input.
27	ASYO	O	EFM full-swing output.
28	ASYE	I	Low: asymmetry circuit off; high: asymmetry circuit on.
29	NC		
30	PSSL	I	Audio data output mode switching input. Low: serial output; high: parallel output.
31	WDCK	O	D/A interface for 48-bit slot. Word clock f=2Fs.
32	LRCK	O	D/A interface for 48-bit slot. LR clock f=Fs.
33	VDD		Power supply (5V).
34	DA16	O	DA16 (MSB) output when PSSL=1. 48-bit slot serial data (two's complement, MSB first) when PSSL=0.
35	DA15	O	DA15 output when PSSL=1. 48-bit slot bit clock when PSSL=0.
36	DA14	O	DA14 output when PSSL=1. 64-bit slot serial data (two's complement, LSB first) when PSSL=0.
37	DA13	O	DA13 output when PSSL=1. 64-bit slot bit clock when PSSL=0.
38	DA12	O	DA12 output when PSSL=1. 64-bit slot LR clock when PSSL=0.

Pin No.	Pin Name	I/O	Description
39	DA11	O	DA11 output when PSSL=1. GTOP output when PSSL=0.
40	DA10	O	DA10 output when PSSL=1. XUGF output when PSSL=0.
41	DA09	O	DA09 output when PSSL=1. XPLCK output when PSSL=0.
42	DA08	O	DA08 output when PSSL=1. GFS output when PSSL=0.
43	DA07	O	DA07 output when PSSL=1. RFCK output when PSSL=0.
44	DA06	O	DA06 output when PSSL=1. C2PO output when PSSL=0.
45	DA05	O	DA05 output when PSSL=1. XRAOF output when PSSL=0.
46	DA04	O	DA04 output when PSSL=1. MNT3 output when PSSL=0.
47	DA03	O	DA03 output when PSSL=1. MNT2 output when PSSL=0.
48	DA02	O	DA02 output when PSSL=1. MNT1 output when PSSL=0.
49	DA01	O	DA01 output when PSSL=1. MNT0 output when PSSL=0.
50	APTR	O	Aperture compensation control output. This pin outputs a high signal when the right channel is used.
51	APTL	O	Aperture compensation control output. This pin outputs a high signal when the left channel is used.
52	VSS		GND.
53	XTAI	I	Crystal oscillation circuit input.
54	XTAO	O	Crystal oscillation circuit output.
55	XTSL	I	Crystal selector input.
56	FSTT	O	2/3 frequency divider output for Pins 53 and 54.
57	FSOF	O	1/4 frequency divider output for Pins 53 and 54.
58	C16M	O	16.9344MHz output. (V16M output in CLV-W and CAV-W modes)
59	MD2	I	Digital-out on/off control. High: on; low: off
60	DOUT	O	Digital-out output.
61	EMPH	O	Outputs a high signal when the playback disc has emphasis, and a low signal when there is no emphasis.
62	WFCK	I	WFCK (write frame clock) output.
63	SCOR	O	Outputs a high signal when either subcode sync S0 or S1 is detected.
64	SBSO	O	Sub P to W serial output.
65	EXCK	I	SBSO readout clock input.
66	SQSO	O	Sub Q 80-bit and PCM peak, level meter and internal status outputs.
67	SQCK	I	SQSO readout clock input.
68	MUTE	I	High: mute; low: release
69	SENS	—	SENS output to CPU.
70	XRST	I	System reset. Reset when low.
71	DATA	O	Serial data input from CPU.
72	XLAT	O	Latch input from CPU. Serial data is latched at the falling edge.
73	VDD		Power supply (5V).
74	CLOK	O	Serial data transfer clock input from CPU.
75	SEIN	I	SENS input from SSP.
76	CNIN	I	Track jump count signal input.

Pin No.	Pin Name	I/O	Description
77	DATO	O	Serial data output to SSP.
78	XLTO	O	Serial data latch output to SSP. Latched at the falling edge.
79	CLKO	O	Serial data transfer clock output to SSP.
80	MIRR	I	Mirror signal input. Used when the number of tracks is 128 or more for the 2N-track jump and M track move of the auto sequencer.

Notes)

- The 64-bit slot is an LSB first, two's complement output, and the 48-bit slot is an MSB first, two's complement output.
- GTOP is used to monitor the frame sync protection status. (High: sync protection window open.)
- XUGF is the negative pulse for the frame sync obtained from the EFM signal. It is the signal before sync protection.
- XPLCK is the inverse of the EFM PLL clock. The PLL is designed so that the falling edge and the EFM signal transition point coincide.
- GFS goes high when the frame sync and the insertion protection timing match.
- RFCK is derived from the crystal accuracy, and has a cycle of 136μ.
- C2PO represents the data error status.
- XRAOF is generated when the 32K RAM exceeds the $\pm 28F$ jitter margin.

IC, CL680

Pin No.	Pin Name	I/O	Description
1	NC	—	No connection.
2	VSS	—	GND.
3	CD BCK	I	Bit clock input from CD DSP.
4	CD DATA	I	Data input from CD DSP.
5	CD LRCK	I	LRCK input from CD DSP.
6	CD C2PO	I	C2 pointer input from CD DSP.
7-9	NC	—	No connection.
10-15	MD0-MD5	I/O	DRAM/ROM interface. (DATA)
16	VSS	—	Ground.
17	MD6	I/O	DRAM/ROM interface. (DATA)
18	VDD3	—	Power supply 3.3V.
19	MD7	I/O	DRAM/ROM interface. (DATA)
20	VSS	—	Ground.
21	MD8	I/O	DRAM/ROM interface. (DATA)
22	VDD3	—	Power supply 3.3V.
23-29	MD9-MD15	I/O	DRAM/ROM interface. (DATA)
30-36	NC	—	No connection.
37	$\overline{\text{MCE}}$	—	ROM chip enable.
38	$\overline{\text{MWE}}$	O	DRAM write enable.
39	VSS	—	Ground.
40	$\overline{\text{CAS}}$	O	DRAM/ROM interface.
41	VDD3	—	Power supply 3.3V.
42	$\overline{\text{RASO}}$	O	DRAM/ROM interface.
43	$\overline{\text{RASI}}$	O	
44-46	MA10-MA8	O	DRAM/ROM interface. (Address)
47	VSS	—	Ground.
48	MA7	O	DRAM/ROM interface. (Address)
49	VDD3	—	Power supply 3.3V.
50-52	MA6-MA4	O	DRAM/ROM interface. (Address)
53	VSS	—	Ground.
54	MA3	O	DRAM/ROM interface. (Address)
55	VDD3	—	Power supply 3.3V.
56-58	MA2-MA0	O	DRAM/ROM interface. (Address)
59	PGIO7	I/O	Programmable I/O.
60	$\overline{\text{RESET}}$	I	Reset input.
61	VDD MAX IN	—	Power supply - VDDMAX. (5.0V)
62-64	NC	—	No connection.
65	AGND DAC	—	Analog ground.
66	A DAC	—	Analog power supply (DAC) : 3.3V.
67	COMP OUT	O	Composite out.
68	AGND DAC	—	Analog ground.

Pin No.	Pin Name	I/O	Description
69	Y OUT	O	Video signal “Y” OUT.
70	AVDD DAC	—	Analog power supply (DAC) 3.3V.
71	AGND DAC	—	Analog ground.
72	R REF	I	Reference resistor input.
73	V REF	I	Voltage reference input.
74	AVDD DAC	—	Analog power supply (DAC) : 3.3V.
75	C OUT	O	Video signal “C” out.
76	AGND DAC	—	Analog ground.
77-79	CLK SEL0-2	I	Clock selection input.
80	VSS	—	Ground.
81	CLK SEL3	I	Clock selection input.
82	VDD3	—	Power supply 3.3V.
83, 84	CLK SEL4, 5	I	Clock selection input.
85	AGND PLL	—	Analog ground.
86	DA XCK	I	DA XCK (16.933MHz) input.
87	AVDD PLL	—	Analog power supply 3.3V.
88	DA EMP	O	DAC-emphasis output.
89, 90	PGIO5, O6	I/O	Programmable I/O.
91	PGIO0	I/O	
92	PGIO8	I/O	
93	$\overline{\text{VSYNC/CSYNC}}$	O	$\overline{\text{VSYNC/CSYNC}}$ output.
94	AVDD PLL	—	Analog power supply (PLL) 3.3V.
95	VID_DAC_CK	O	Video DAC clock.
96	PROC_CK	O	Processor clock.
97	AUD_XCK	O	Audio XCK.
98	AGND PLL	—	Analog ground.
99	VSS	—	Ground.
100	NC	—	No connection.
101	$\overline{\text{HSYNC}}$	O	$\overline{\text{HSYNC}}$ output.
102	VDD3	—	Power supply 3.3V.
103	VCK OUT	O	VCK out.
104	VSS	—	Ground.
105	GCK	I	Global clock signal input. (42.3MHz)
106	VCK	I	Video clock signal input. (27.0MHz)
107	GCK OUT	O	Global clock signal output. (27.0MHz)
108	DA LRCK	O	DAC-LRCK output.
109	VDD MAX OUT	—	Power supply (VDD MAX) : 5.0V.
110	DA DATA	O	DAC-PCM data output.
111	DA BCK	O	DAC-BIT clock output.
112	HD OUT	O	Micon interface. (Data out)
113	HRDY	O	Micon interface. (Host ready)

Pin No.	Pin Name	I/O	Description
114	$\overline{\text{HINT}}$	O	Micon interface. (Host interrupt)
115	CDG SCK	I	CD-G serial clock input.
116	VSS	—	Ground.
117	HCK	I	Micon interface. (Host clock)
118	VDD3	—	Power supply 3.3V.
119	HD IN	I	Micon interface. (Host data in)
120	VDD3	—	Power supply 3.3V.
121	HSEL	I	Micon interface. (Host select in)
122	CDG DATA	I	CD-G data input.
123	CDG VFSY	I	CD-G VFSY input.
124	CDG SOSI	I	CD-G SOSI input.
125	DSP-XCK	O	DSP-XCK output.
126-128	NC	—	No connection.

IC, LC74781M

Pin No.	Pin Name	I/O	Description
1	VSS1	—	GND connection terminal. (Digital ground terminal).
2	Xtal IN	I	External X'tal and capacitor for internal sync generator, or the external clock are connected to this terminal. (2fsc or 4fsc).
3	Xtal OUT	O	
4	CTRL1	I	Either the external clock input mode or the X'tal generator mode is selected by this selector terminal. L: X'tal generator mode, H: External clock input.
5	BLANK	O	Blank signal (character and the green ORed signal) is output from this terminal. (MODE 0: composite sync signal is output at H.) When reset ($\overline{\text{RST}}$ terminal = L), the X'tal clock signal is output. (It is not output when reset by the reset command).
6	OSC IN	I	External coil and capacitor for the character output dot clock generator are connected to this terminal.
7	OSC OUT	O	
8	CHARA	O	The character signal is output from this terminal. (MOD 0: when H, the external sync signal identification signal is output from this terminal. This output signal tells whether the external sync signal is present or not. When external sync signal is present, H is output.) When reset ($\overline{\text{RST}}$ terminal = L), the dot clock signal (LC oscillator) is output. (It is not output when reset by the reset command).
9	$\overline{\text{CS}}$	I	Enable signal for the serial data input is input to this terminal. The serial data input is enabled at L. Pull-up resistor is built-in. (Hysteresis input).
10	SCLK	I	Clock of the serial data input is input to this terminal. Pull-up resistor is built-in. (Hysteresis input).
11	SIN	I	Serial data input terminal. Pull-up resistor is built-in. (Hysteresis input).
12	VDD2	—	Power supply for the composite video signal level adjustment. (Analog power supply).
13	CV OUT	O	Composite video signal output terminal.
14	NC	—	Connected to GND or not connected.
15	CV IN	I	Composite video signal input terminal.
16	VDD1	—	Power supply (+5V digital power supply).
17	SYN IN	I	Video signal for the internal sync separator circuit is input to this terminal. (When the internal sync separator circuit is not used, the horizontal sync signal or composite sync signal is input to this terminal).
18	SEP C	—	Internal sync separator circuit bias voltage monitoring terminal.
19	SEP OUT	O	The composite sync output signal of the internal sync separator circuit is output from this terminal. (H: MOD 1. H: during internal sync mode. L: during external sync mode.) (When internal sync separator circuit is not used, the SYN IN input signal is output from this terminal).
20	SEP IN	I	The output signal of the SEP OUT terminal is integrated so that the vertical sync signal is input to this terminal. An integrator circuit must be connected between the SEP OUT terminal and this terminal. When this terminal is not used, it must be connected to VDD1.
21	CTRL2	I	When selecting any of the NTSC or PAL or PAL-M or PAL-N system, the pin setting has priority. When L, the NTSC system is selected after resetting. Selection of either NTSC or PAL or PAL-M or PAL-N system by the command becomes effective. H: PAL-M system.

Pin No.	Pin Name	I/O	Description
22	CTRL3	I	Controls whether or not to input the $\overline{\text{VSYNC}}$ signal to the SEPIN input. L: to input the $\overline{\text{VSYNC}}$ signal. H: not to input the $\overline{\text{VSYNC}}$ signal.
23	$\overline{\text{RST}}$	I	System reset input terminal. Pull-up resistor is built-in. (Hysteresis input).
24	VDD1	—	Power supply. (+5V digital power supply).

IC, μ PD78016FGC

Pin No.	Pin Name	I/O	Description
1	RBPLS	O	RADIAL BALANCE PLUS.
2	AMUTE	O	AUDIO ANALOG MUTE (H=MUTE ON).
3	GFS	I	GFS.
4	XVCDMD	I	AUDIO/VIDEO CD MODE (L=VCD=SPINDLE GAIN UP).
5	MD2	O	DOUT MUTE CONT.
6	EMPH	I	EMPHASIS.
7	SQSO	I	SQDATA FROM CD.
8	SQCK	O	SQCLK TO CD.
9	VSS	—	GND.
10	SWNT	I	SW TV OUT MODE (L=NTSC).
11	SWAUTO	I	SW TV OUT MODE (L=NTSC/PAL AUTO).
12	SWPAL	I	SW TV OUT MODE (L=PAL).
13	EMERG	I	POWER EMERGENCY STOP (L*3sec=STOP).
14	NC	—	Nou used.
15	LPCSEL	I	“LPC ON/OFF (H=ON, NORMAL)”.
16	NC	—	Nou used.
17	LOCK	O	GFS (FRAME SYNC) LOCK (NO USE=H).
18	DMUTE	O	DIGITAL DATA OUT MUTE.
19	SENS	I	DSP SENS1 FROM CD.
20	XCDRST	O	CD RESET.
21	DATA	O	DATA TO CD.
22	XLAT	O	XLT TO CD.
23	CLOK	O	CLK TO CD.
24	VSS	—	GND.
25	FOK	I	FOCUS OK.
26	SENS2	I	SSP SENS2 FROM CD.
27	XBUSY	I/O	READY/BUSY I/O TO HOST OD.
28	NC	—	Nou used.
29	NC	—	
30	NC	—	
31	TST0	I/O	CHECK LAND.
32	TST1	I/O	
33	TST2	I/O	
34	TST3	I/O	
35	RESET	I	RESET.
36	HRDY	I	HRDY FROM CL680.
37	XHINT	I	HINT FROM CL680.
38	NC	—	Nou used.
39	SCOR	I	SCOR FROM CD.
40	VDD	—	5.0VDD.
41	XO	O	8.0MHz CERALOCK.

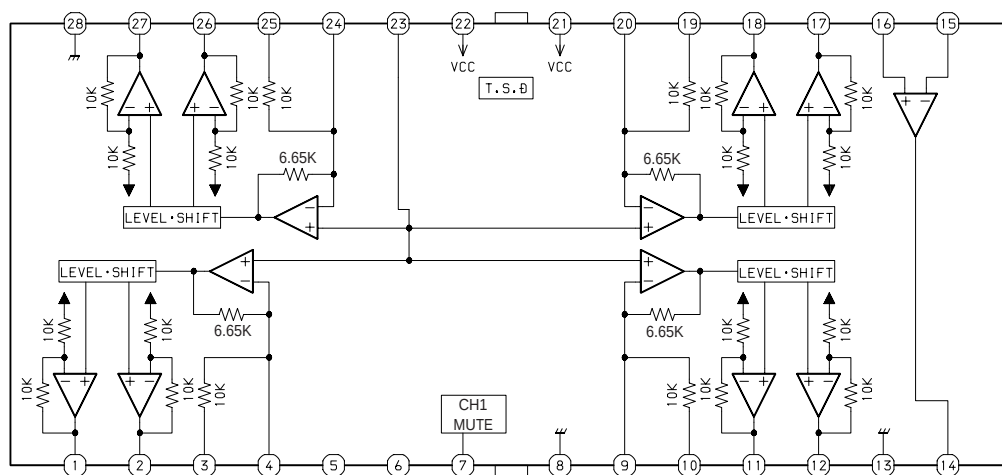
Pin No.	Pin Name	I/O	Description
42	XI	I	8.0MHz CERALOCK.
43	VSS	—	GND.
44	XT2	—	Nou used.
45	XT1	I	5.0VDD.
46	AVSS	—	GND.
47	XMPGRST	O	MPEG BLOCK IC RESET.
48	HSEL	O	ADDRESS/DATA SEL TO CL680.
49	INLSW	I	INSIDE LIMIT SW .
50	NC	—	Nou used.
51	OSDXCS	O	OSD CHIP SELECT.
52	ABSEL	I	CXA1992A/B SELECT (L=CXA1992A).
53	CLVSEL	I	CLV MODE SELECT (H=CLV-N).
54	AADSEL	I	AUTO ADJUST SELECT (H=AUTO ON).
55	AVDD	—	5.0VDD.
56	AVREF	—	
57	HDOUT	I	HD-OUT FROM CL680.
58	HDIN	O	HD-IN TO CL680.
59	HCK	O	HCK TO CL680.
60	OSDDATA	O	OSD DATA.
61	OSDCLK	O	OSD CLOCK.
62	COMMAND	I	COMMAND FROM HOST .
63	STATUS	O	STATUS TO HOST.
64	SCK	I	SCK FROM HOST.

IC, SM5878M

Pin No.	Pin Name	I/O	Description
1	MUTE	I	MODE = H: Soft mute ON/OFF terminal. (Mute at H). MODE = L: Attenuator level DOWN/UP terminal. (DOWN at H).
2	DEEM	I	De-emphasis ON/OFF terminal. (De-emphasis ON at H).
3	CKO	O	Oscillator clock output. (16.9344 MHz).
4	DVSS	—	Digital VSS terminal.
5	BCKI	I	Bit clock input terminal.
6	DI	I	Serial data input terminal.
7	DVDD	—	Digital VDD terminal.
8	LRCI	I	Sample rate clock (fs) input terminal. (H = L ch/L = R ch).
9	TSTN	I	Test input. (“H” or open during normal operation)
10	TO1	O	Test output 1. (Normally low level output).
11	AVDDL	—	Analog VDD terminal. (For L ch).
12	LO	O	Left channel analog output terminal.
13	AVSS	—	Analog VSS terminal.
14	RO	O	Right channel analog output terminal.
15	AVDDR	—	Analog VDD terminal. (For R ch).
16	MUTEO	O	Infinity zero detection output.
17	XVDD	—	X’tal system VDD terminal.
18	XTI	I	X’tal oscillator terminal. (Or external clock input terminal of 16.9344 MHz).
19	XTO	O	X’tal oscillator terminal.
20	XVSS	—	X’tal system VSS terminal.
21	DS	I	Double-speed/normal playback selection. (Double-speed at H).
22	RSTN	I	Reset terminal. (Reset at L).
23	MODE	I	Soft mute/Attenuator mode selection. (Soft mute at H).
24	ATCK	I	Attenuator level setup clock (Ignored when MODE = H).

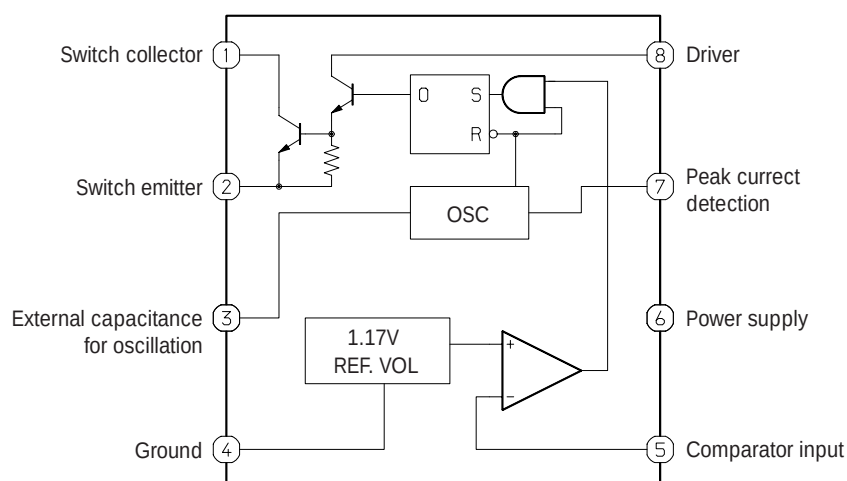
IC BLOCK DIAGRAM

IC, BA5915FP

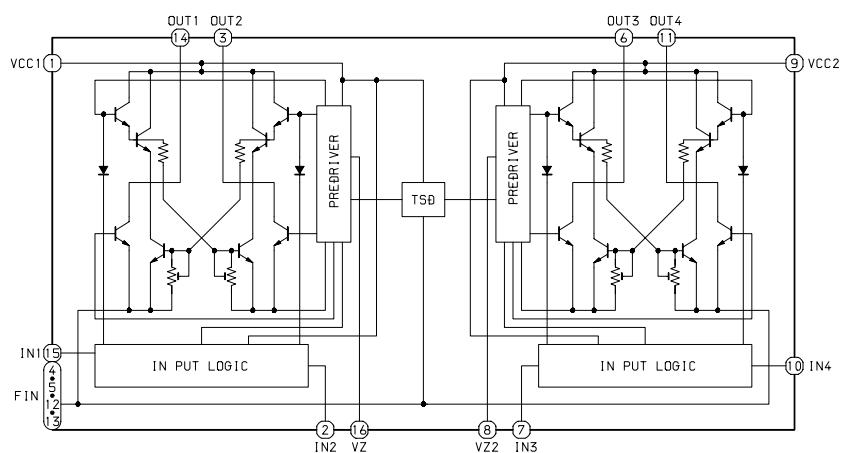


T.S.D: Thermal shut-down
Resistors are in units of Ω .

IC, M5291FP



IC, LB1644



TRUTH TABLE

IN1	IN2	OUT1	OUT2	IN3	IN4	OUT3	OUT4
0	0	L	L	0	0	L	L
1	0	H	L	1	0	H	L
0	1	L	H	0	1	L	H
1	1	L	L	1	1	L	L

INPUT				OUTPUT				MODE	
IN1	IN2	IN3	IN4	OUT1	OUT2	OUT3	OUT4	M1	M2
0	0	0	0	L	L	L	L	BRAKE	BRAKE
1	0	0	0	H	L	L	L	FF/REW	BRAKE
0	1	1	1	L	H	L	L	REW/FF	BRAKE
1	1	0	0	L	L	H	L	BRAKE	FF/REW
0	0	1	1	L	L	L	H	BRAKE	REW/FF
1	1	1	1	L	L	L	L	BRAKE	BRAKE

TEST MODE

1. How to Activate CD Test Mode

Insert the AC plug while pressing the function CD button.
All FL display tubes will light up, and the test mode will be activated.
2. How to Cancel CD Test Mode

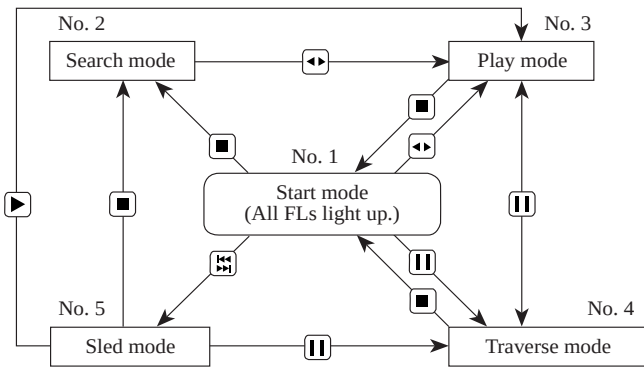
Either one of the following operations will cancel the CD test mode.
 - Press the function button.
 - Press the power switch button. (except CD function button)
 - Disconnect the AC plug
3. CD Test Mode Functions

When test mode is activated, the following mode functions from No.1 to No.5 can be used by pressing the operation keys.

Mode/No.	Operation	FL display	Operation	Contents
Start mode No.1	Activation	TEST00 00 00 Flashes repeatedly	- Test mode is activated. - CD block power is ON.	Test mode
Search mode No.2	■ key		- Continual focus search (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes. * NOTE 1	FOCUS SERVO - Check focus search waveform - Check focus error waveform (FOK/FZC are not monitored in the search mode)
Play mode No.3	◀▶ key		- Normal playback - Focus search is continued if TOC cannot be read. * NOTE 1	FOCUS SERVO/TRACKING SERVO CLV SERVO/SLED SERVO Check FOK/FZC
Traverse mode No.4	|| key		- During normal disc playback - Press once; tracking servo OFF - Press twice; tracking servo ON * NOTE 2	TRACKING SERVO ON/OFF Tracking balance (traverse) check
Sled mode No.5	⏮ key ⏭ key	All lamps light	- Pickup moves to the outermost track - Pickup moves to the innermost track * NOTE 3 (During playback, machine operates normally.)	SLED SERVO Check SLED mechanism operation

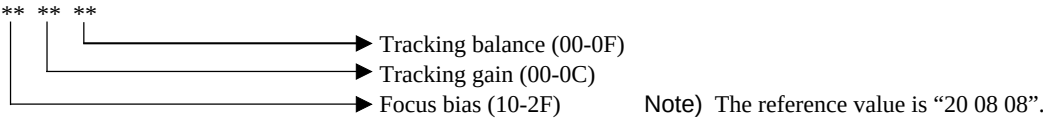
- * NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.
- * NOTE 2: Do not press the ⏮ or ⏭ keys when the machine is in the || status is active. If they are pressed, playback will not be possible after the || status has been canceled. If the ⏮ or ⏭ keys are pressed in the || status, press the ■ key and return to the start mode (No.1).
- * NOTE 3: When pressing the ⏮ or ⏭ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ⏮ or ⏭ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline
- The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.

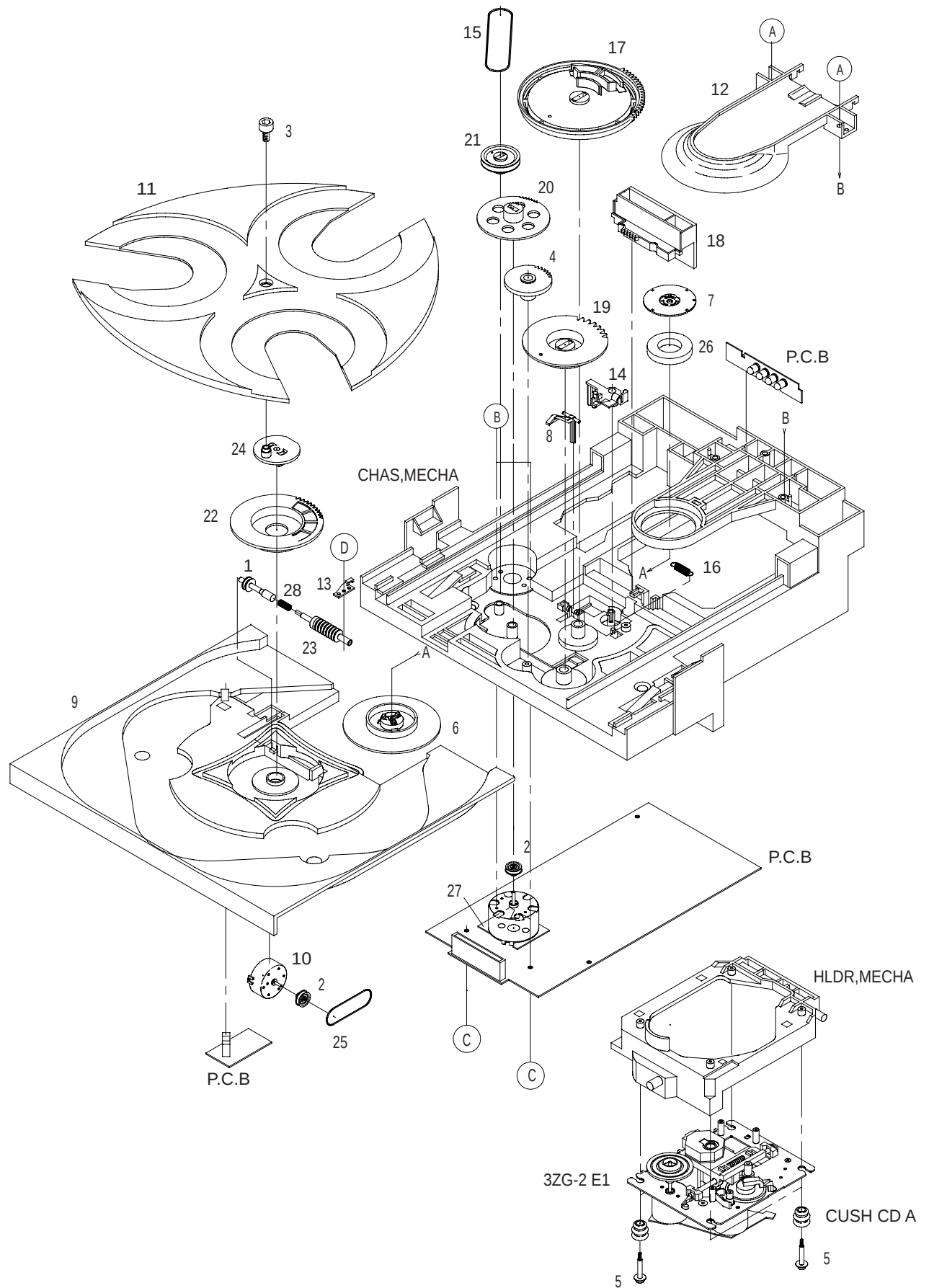


If the DISC DIRECT PLAY button is pressed, the machine performs the same operation as the PLAY button is pressed as shown. If the tray is opened by pressing OPEN/CLOSE button during Play mode or Traverse mode, the machine returns to the Start mode.

5. How to check the Automatic Adjustment Values
- The automatic adjustment values can be checked by pressing the square (■) button.
FL display (displayed in hexadecimal values)



MECHANICAL EXPLODED VIEW 1/1

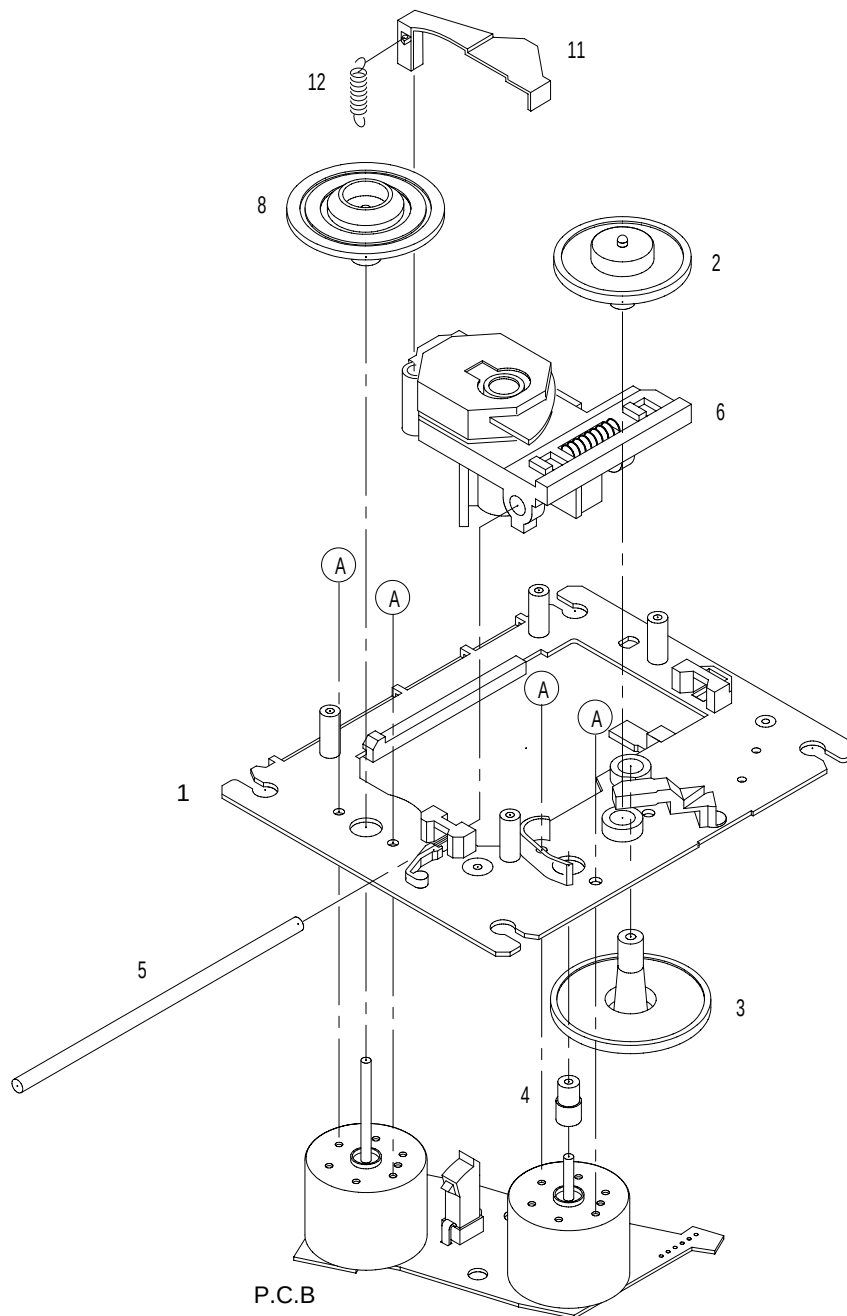


MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	84-ZG1-239-210		PULLY,WORM N	21	84-ZG1-207-010		PULLEY,RELAY
2	84-ZG1-267-010		PULLEY,LOAD MO 8	22	84-ZG1-221-010		GEAR,MAIN TT
3	81-ZG1-239-010		S-SCREW,TT	23	84-ZG1-238-010		GEAR,WORM N
4	81-ZG1-291-110		GEAR,TRAY RELAY NO3	24	84-ZG1-224-010		LEVER,TT
5	81-ZG1-271-010		S-SCREW MECH REAR	25	84-ZG1-225-010		BELT,SQ1.0-63.3
6	81-ZG1-277-310		HLDR,MAGNET N	26	83-ZG3-602-010		RING,MAG
7	81-ZG1-255-110		PLATE,MAGNET MK2	27	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
8	83-ZG3-213-010		LVR,SW	28	84-ZG1-248-010		SPR-C,WORM
9	84-ZG1-003-310		TRAY,N02-B	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
10	87-045-364-010		MOTOR(BCH3B14)	B	87-251-070-410		U+2.6-3
11	84-ZG1-005-210		TURNTABLE,N01(*)	C	87-342-036-210		UT2+2-8
12	84-ZG1-011-010		REFLECTOR,CD	D	87-067-981-010		BVT2+3-6 BLK
13	84-ZG1-259-010		SPR-P,WORM				
14	84-ZG1-208-210		LEVER,CAM				
15	84-ZG1-209-010		BELT,SQ1.8-117.7				
16	84-ZG1-211-010		SPR-E CAM S				
17	84-ZG1-215-410		GEAR,MAIN CAM BLU				
18	84-ZG1-216-310		SLIDE,MECHA CAM YEL				
19	84-ZG1-205-110		GEAR,TRAY				
20	84-ZG1-206-110		GEAR,RELAY				

CD MECHANISM EXPLODED VIEW 1/1 (3ZG-2 E1)



CD MECHANISM PARTS LIST 1/1 (3ZG-2 E1)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-243-110		CHAS ASSY,SHT
2	83-ZG2-235-010		GEAR, A3
3	83-ZG2-205-210		GEAR, B
4	83-ZG2-236-010		GEAR MOTOR 3
5	83-ZG2-240-010		SHAFT, SLIDE 3
6	87-A90-836-010		PICKUP, KSS-213F
8	83-ZG2-233-010		TURN TABLE, A5
11	83-ZG2-245-110		LEVER, SHUTTER
12	83-ZG2-250-010		SPR-E, SHT 2
A	87-261-032-210		SCREW V+2-3

USE MODEL LIST

CX-NAK572
CX-NK270
CX-NK290
CX-NK370
CX-NK570
CX-NK765
CX-NK770
CX-NK970
DX-SNKH100

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
Gー ー	
Gー ー	
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912162

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